SANYO

FILE NO.

SERVICE MANUAL

HDD/DVD Recorder

HVR-DX700
(Product Code: 1 682 342 65)
(Australia, New Zealand)

HVR-DX710
(Product Code: 1 682 342 66)
(Australia, New Zealand)

SPECIFICATIONS
Power Source: 200-240V 50/60Hz
Power Consumption: 57W
Dimensions: 435(W) x 60(H) x 343(D)mm
Net Weight: Approx. 5.6kg

Specifications subject to change without notice.

REFERENCE No. SM0905006

CONTENTS

SPECIFICATIONS **2**
SCHEMATIC DIAGRAM **7**
PCB CIRCUIT BOARD **24**
INSTRUMENT DISASSEMBLY **31**
PACKING VIEW **32**

SPECIFICATIONS

SECTION	1st Model	REMARK
MODEL		
-Local Model	DG-M13E1D-HR/O , DG-M23E1D-HR/O	
-Description	DVD Recorder + HDD	
-Target Area	For Australia	
-Mass Production	'06.07	
GENERAL		
-Power Plug	2-Pin type (For Australia)	
-Set Size (WxHxD) - wihtout leg - with leg	 435 x 55 x 343 mm 435 x 60 x 343 mm	
-Safety Regulation	CE	
-Set Weight (Net/Gross)	4.3Kg / 5.6Kg	
-Power Print on Rear Panel	200~240V, 50/60Hz	
-Operation temperature	35	
-Power Consumption - Maximum - Operate - Stand-By(power off)	 57 W 40 W 4.5 W	
-Power Failure Compensation	1 Min.	
-Stuffing Quantity - 20 ft - 40 ft - 40 ft (HQ)	 824 EA 1724 EA 1954 EA	
DVD MODULE Spec.		
-Manufactruer of FEM (Front End Module)	Lite On / Daewoo	
-Interface	ATA (IDE bus) Interface	
-Opitical P/U	SANYO & SONY	
-FE Chip	MT1818, MT1816	
-BE chip type Numbers	DMN-8652	
HDD Spec.		
-Drive interface	ATA (IDE bus) Interface	
-Capacity	80GB/ 160 GB (1platter)	250G Available
-RPM	7200 RPM	
-Start time	8 sec (15 sec max)	
-Stop time	12 sec (20 sec max)	
PLAYABLE DISC TYPE		
-DVD Type : DVD-ROM / DVD+R / DVD+RW / DVD-R / DVD-RW / DVD-RAM	Yes to All (Except DVD-RAM)	- DVD+R/-R After finalize - DVD-R/-RW (Video Format)
-CD Type : CD-ROM / CD-R / CD-RW	Yes to All	
-Video Format : DVD / VCD / SVCD / MPEG 4 / JPEG / Kodak picture CD / DviX	Yes to All (Except MPEG4, Kodak Picture CD)	
-Audio Format : DVD-Audio / SACD / HDCD / CDDA / MP3 / WMA / MP3 Pro	CDDA / MP3	- WMA is Hidden
-Disc size	8cm/12cm	
-Regional Code	4	
PLAYBACK FEATURES		
-Disc access time (play ready time from drawer close press)	Less than 20 sec.	
-Fast Scan Motion (FWD / REV) ; DVD (ROM/-VIDEO/-VR)	(O/O) : x2, x4, x8, x16, x32	
-Fast Scan Motion (FWD / REV) ; HDD (With Time Shifting)	(O/O) : x2, x4, x8, x16, x32(except REV x2)	
-Fast Scan Motion (FWD / REV) ; VCD	(O/O) : x2, x4, x8, x16, x32	
-Fast Scan Motion (FWD / REV) ; CDDA,MP3	(O/O) : x2	
-Fast Scan Motion (FWD / REV) ; DivX	(O/O) : x2, x4, x8	
-Slow Motion (FWD / REV) ; DVD (ROM/-VIDEO/-VR)	(O/O) : x1/2, x1/4, x 1/8	
-Slow Motion (FWD / REV) ; HDD	(O/O) : x1/2, x1/4, x 1/8	
-Slow Motion (FWD / REV) ; VCD	(O/X) : x1/2, x1/4, x 1/8	
-Slow Motion (FWD / REV) ; CDDA,MP3	(X/X)	
-Slow Motion (FWD / REV) ; DivX	(X/X)	
-Next, Previous	O	
-Resume play	O (DVD Only)	
-Frame-by-Frame Playback (FWD / REV)	(O/X) : DVD, HDD, VCD	DVD-R/RW After finalized, DVD Video format HDD OK
-Search Title / Chapter / Track / Time	DVD : Title & Chapter HDD : Title & Chapter VCD : Track CDDA/MP3 : X	
-Zoom (In Playback or Pause state)	O (x2, x4)	

SPECIFICATIONS

SECTION	1st Model	REMARK
-Subtitle	O (DVD-ROM Only)	
-Multi-angle playback	O (DVD-ROM Only)	- Only in case that DVD-Video disk supports multi-angle scenes
-Random Playback	X	
-Program Playback	X	
-Repeat	DVD : Chapter Title Disc Shuffle Scan Off HDD : Chapter Title Disc Off VCD : Track Disc Off CDDA/MP3 : Track All Off	
-Repeat A-B	DVD,HDD,VCD	
-Yes DVD	X	
-Clear Play	X	
-Auto Play	X	
-x2 Audio	X	
-Combination Playback : JPG + MP3 Only	O	
SYSTEM		
-Language	15 languages E/G/F/S/I/D/Nr/Sw/Pr/H/R/Po/Da/Fi/Cz	English, German, French, Spanish, Italian, Dutch, Norwegian, Swedish, Portuguese, Hungarian, Russian, Polish, Danish, Finnish, Czech
-	ENGLISH	
-On-screen display on/off-user selectable	X	
-Disk Type displayed OSD / Front Panel Display	O/X	
-Company LOGO	SANYO	
-Screen Saver	X	
-PBC for VCD 2.0 or SVCD	O	
-Parental lock	O	
-Child Lock	O (Pushing PWR Key 5sec.)	
-TV Aspect Ratio (16x9, Pan Scan, letterbox)	O	
-Upgradeable Flash Memory Capability by CD	O	
-Video Output Format	PAL	
-Information On HDD Size & Available Space	O	
-Erase all program on HDD	O	
-Auto Chapter Making (5Min, 10Min, 15Min, Off)	O	
-Closed Caption	X	
-Menu Language Change	O	
-Subtitle Laguage Select	O	
-Audio Language Select	O	
-Network DVD (Digital 5)	X	
-Up Scalar Analog Video Out (720p / 1080i)	X	
-HDMI	X	
-AV LINK	X	
-CM Skip	X	
-Time Shift Mode	O (Buffering 60Min.)	
-PIP	X	
-DV Camcorder Control	X	
File Management & Editing		
-Rename	O	
-Erase Disc	O	- Erase all titles on the disc
-Overwrite disc	O	- Record a new title to the beginning of the title list
-Lock	O	
-Protect	O	
-Edit		
- Append	X	
- Split	O (Title / Chapter)	
- Delet	O (Title / Chapter)	
- Delet All	O (Chapter)	
-Menu Display Thumbnail (Title) Thumbnail Change	 O O	
-Manual Chapter Making / Delete Chapter Mark	X/X	
-Chapter Hide / Unhide	O	
-Edit Title Name	O	
RECORDING		
-Dual Format	X	
-Video Recording Format	DVD + VR Format	
-Video Recording Compress Format	MPEG II	
-DVD Type	DVD+R / DVD+RW /	

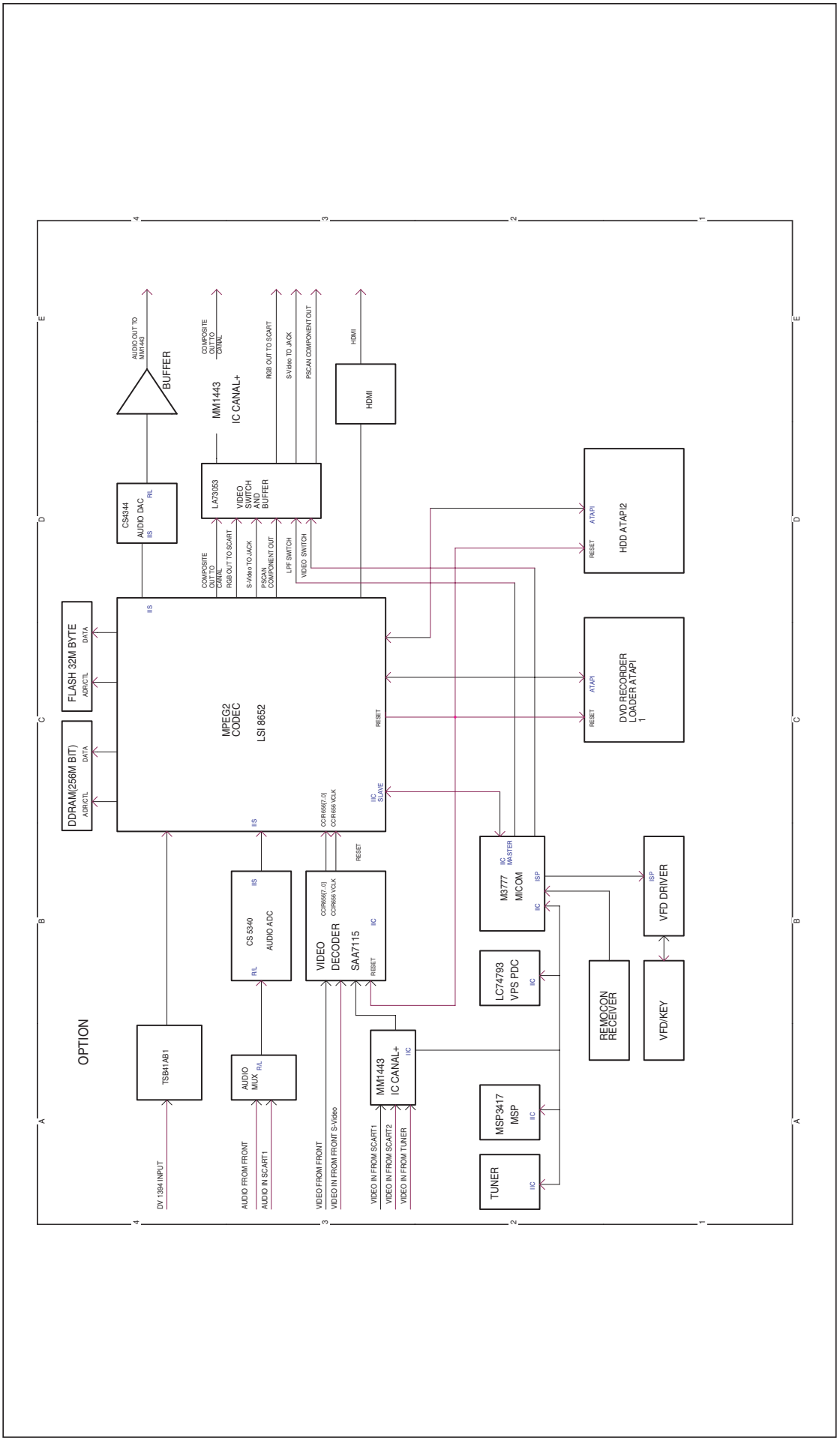
SECTION	1st Model	REMARK
-Disk Recording Rate (Mbps) & Recording Hour with 4.7 GB	HQ : 9.5 Mbps, 60min SP : 5.1 Mbps, 120min EP : 2.5 Mbps, 240min SLP : 1.7 Mbps, 360min	
-HDD Recording Capacity (160GB)	HQ : 9.5 Mbps, 32Hr SP : 5.1 Mbps, 66Hr EP : 2.5 Mbps, 128Hr SLP : 1.7 Mbps, 195Hr	
-DVD data full - Record (Include T.REC, & OTR)	Stop	- Warning message such as 'DISC FULL'
-HDD data full - Record (Include T.REC, & OTR)	Stop	- Manual Space Management (Default) - Automatic Space Management (oldest title erase)
-Initialize	DVD+R / DVD+RW	
-Finalize	DVD+R / DVD-R	
-Time Shifting REC	O	
-HDD Recording and DVD Playback	O	
-DVD Recording and HDD Playback	O	
-REC Bit Rate Selection	O	- By GUI & RCU key
-Transrating DVD HDD (REC Speed)	X	
-HDD DVD copy Disc Writing speed	O	- X 2.4
-HDD DVD copy	O (MP3, JPG, JPEG, DivX)	
TIMER		
-Date Recognized Period	2005~2104	
-Number of Timer Recording	8 Events / 1 Year	
-Clock display method	24 Hour	
-Manual Clock Setting	O	
-Auto Clock Setting	O	
-Timer Recording System - General - ShowView (VideoPlus+) - VPS / PDC - EPG	 O X X X	
-One Touch Recording - Recording Time Display Method	O Recording Hours (Unit of 15Min)	 HDD ; Max (10 Hours / 15Min in any Mode)
-Once Recording	O	
-Daily Recording	O	
-Weekly Recording	O	
-Weekend Recording	O	
-Timer Recording Contents Display	O	
-Method to Timer Recording	O	Auto Start when Power-Off Warning&Selection when Power-ON
-Timer Recording Start Timing	On Time	- Set turns on eariler than Recording time
-Priority on Overlap Timer Recording	X	- Conflict message will be shown up on the screen
Broadcasting Tuner		
-Broadcasting System	PAL-B/G	
-Channel Selection Method	Programmable F/S	
-Band - PAL-B/G,I/I - PAL/SECAM-L	 V-L, V-H, UHF V-L/L', V-H, UHF	
-Total Channel Number - PAL BG - PAL I/I - PAL D/K - SECAM L	 116 CH(CH 02-69, 74-80, CC 01-41) 116 CH(CH 01-13, 21-69, CC 01-54) 119 CH(CH01-12, 21-69, CC 01-58) 99 CH(CH 02-10, 21-69, CC 01-41)	
-Position Memory Number	99CH	
-Auto Channel Setting - Auto Search & Memory - Auto Channel Sorting - Auto Station Name Display	 O Option O	 License (Royalty)
-Manual Channel Setting - CH Direct Input - Manual Search & Memory - Manual Channel Clear	 O O O	

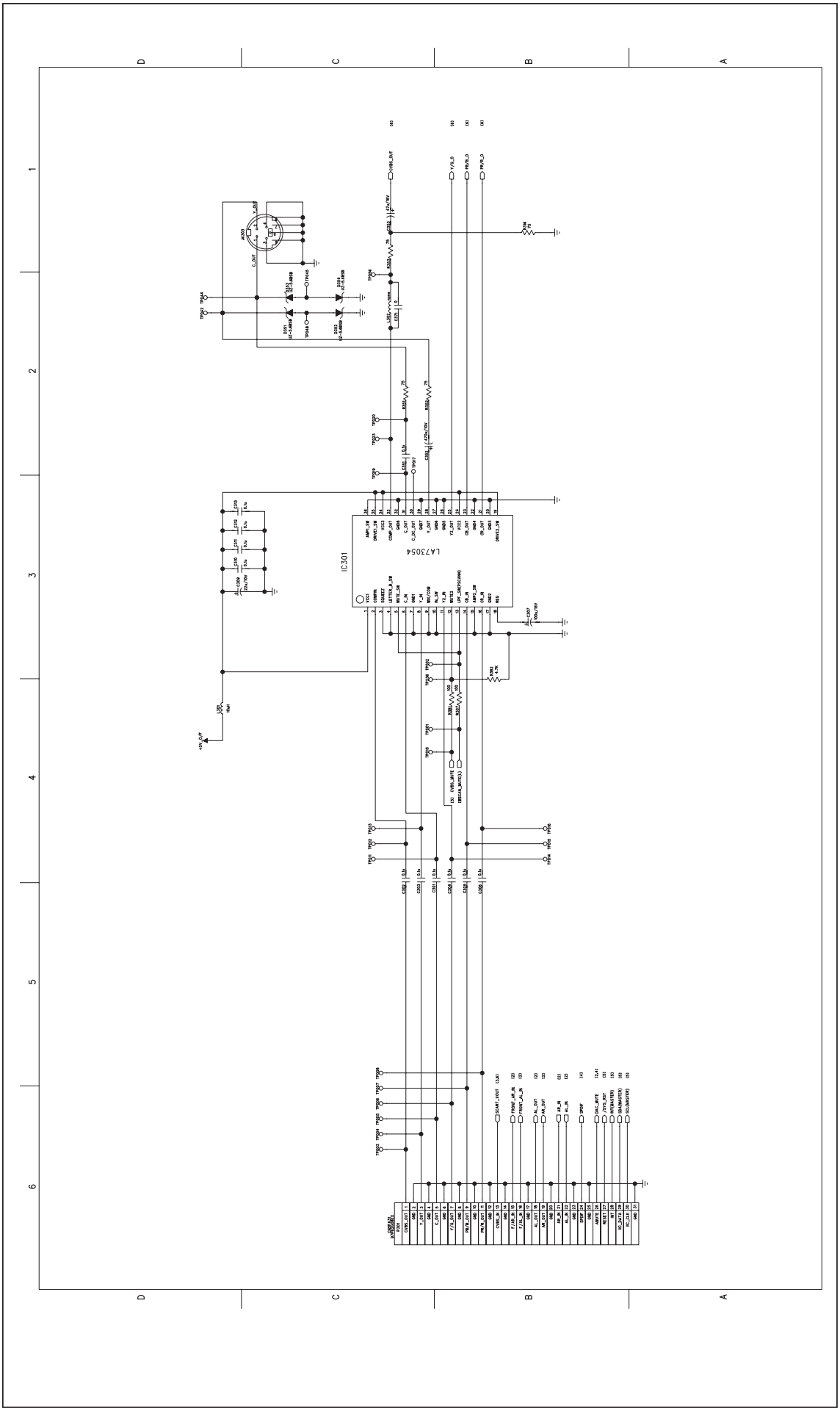
SECTION	1st Model	REMARK
- Manual Channel Align	O	
-Manual Fine Tuning - Memory Available - E2PROM	 O O	
-RF Modulation Out	X	- 21 pin Scart Cable Accessory
VIDEO		
-Horizontal Resolution (line input)	<PAL/SECAM> HQ/SP : 500 Lines (DVD+R/RW) EP/SLP : 250 Lines (DVD+R/RW)	
-Screen size(MPEG encoder)	<PAL/SECAM> HQ/SP: 720x576 (DVD+R/RW) LP/EP : 352x576 (DVD+R/RW) SLP : 352x288 (DVD+R/RW)	
-Video DAC	8bit	
-Video output signal : NTSC / PAL / PAL 60Hz / PAL-50Hz / SECAM	PAL	
-Progressive Scanning	O	- 576p By Setup menu & RCU key
-Component / RGB Select	O (OSD)	
AUDIO		
-Audio Recording Format	MPEG I Layer II	
-Sampling Rate	48 KHz	
-Audio ADC/DAC	24bit	
-S/N Ratio (line input)	65 dB weighted	
-Dynamic range (line input)	75 dB	
-Digital output	DTS, AC3, MPEG2	
-Audio Digital-to-analog converter	96kHz/24bit	
-Dolby Digital Down Mix (5.1ch to LtRt out)	O	
-Dolby Digital Passthrough	O	
-DTS Digital Passthrough	O	
-MPEG-2 Audio Passthrough	O	
-Dolby Digital 5.1-Ch decoding	O	
-DTS Digital 5.1-Ch decoding	X	
-Open MP3 Compatible (pre recorded MP3 Discs)	O	
-AC-3/PCM data Conversion	O	- Down Mixing
-3D Surround	O	
-Dynamic range control	O	
Front Panel		
-Front Panel Key	11 Key Open/Close, Play, Stop, REC, NEXT, PREV, DVD/HDD, Menu, Standby/ON, PR+ , PR-	
-LED Indicator	X	
-Front A/V jacks	2EA FOR AUDIO (R/L) 1EA FOR VIDEO	
-IEEE 1394 DV Input	O	
-S-VIDEO Input	O	
-USB Input	X	
-Memory Card Slot	X	
-PCMCIA	X	
Front Panel DISPLAY		
-Device	LED Array	
-Display Size	62(W) x 18(H) mm	
-Display Color	RED / YELLOW	
-Language	English	
-Clock / Counter Change - On DVD Out - On DVD In	 Clock Clock	
-Clock Display Method	24 Hour	
-Counter Display Method	Real Time	
-Dimmer at Power Off	O	
Rear Panel		
-Analog Audio In (L/R RCA Jack)	1 EA	
-Analog Audio Out (L/R RCA Jack)	1 EA	
-S-video Out	1 EA	
-Composite Video In (Yellow RCA Jack)	1 EA	
-Composite Video Out (Yellow RCA Jack)	1 EA	
-Component Out (Y/Pb/Pr RCA Jack)	1 EA	
-Component Pair Analog Audio Out (L/R RCA Jack)	1 EA	
-EURO AV (SCART 1) : Composite / RGB Switchable	X	
-EURO AV (SCART 2) : Decoder	X	
-DVI	X	
-HDMI	X	
-Digital Audio In / Out	Output Only	

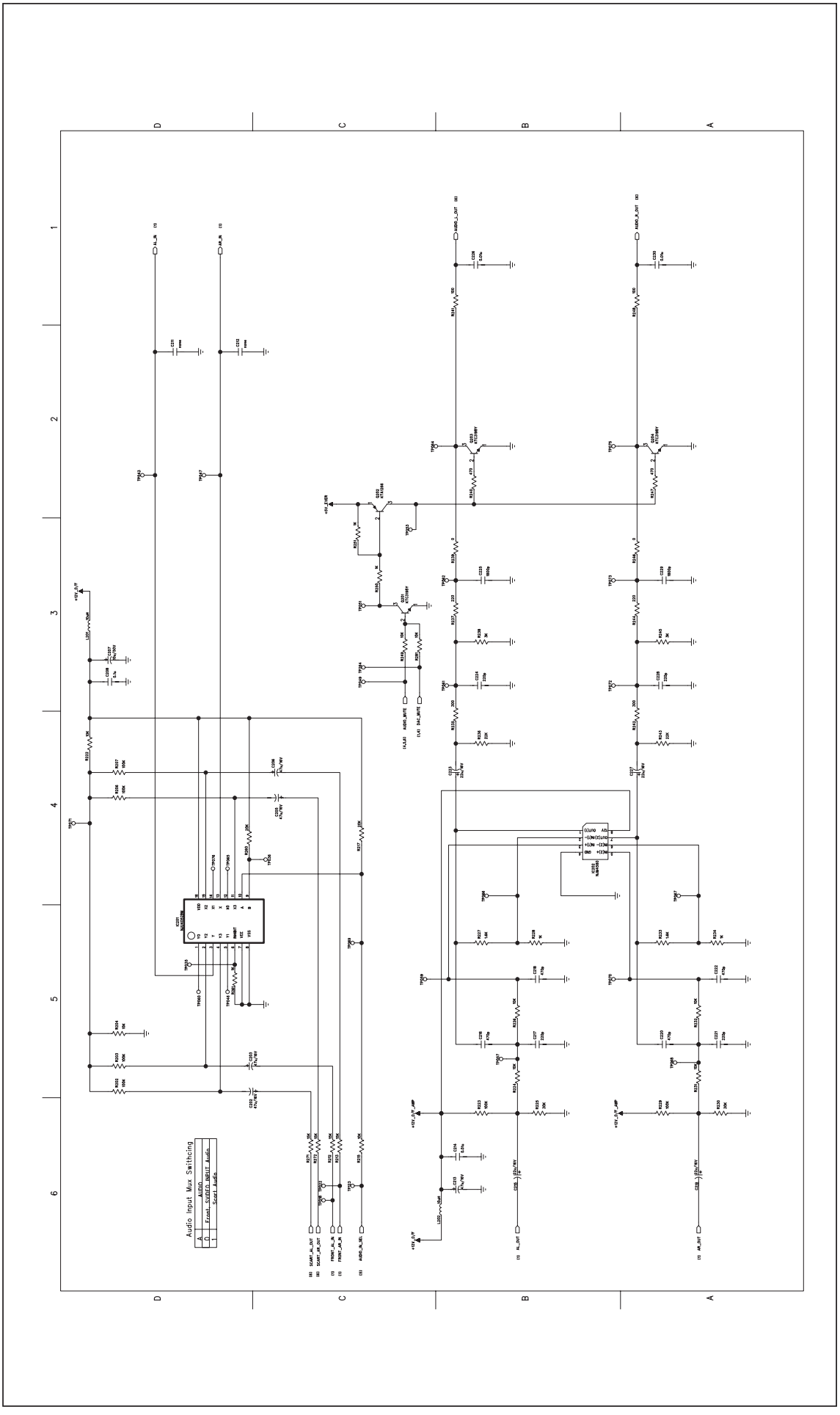
SPECIFICATIONS

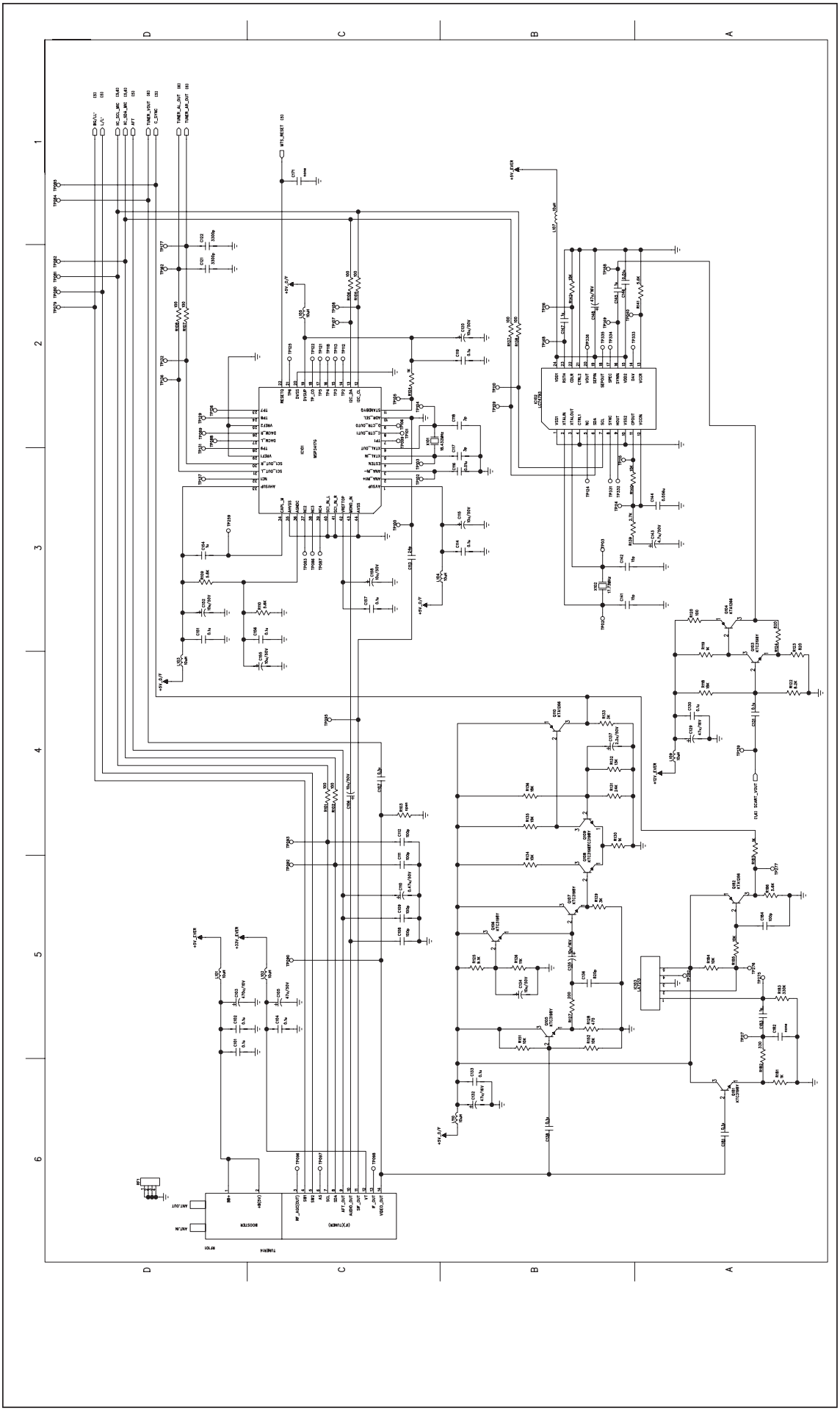
SECTION	1st Model	REMARK
- Coaxial	O	
- Optical	O	
□ Power cord Type	Polarized	
- Cord Holder	O	
□ Spec & Serial Number Label	O (DEC's spec)	
□ Antenna Jack Type	F type : 1 Pair	
- Antenna Jack Layout	In : Up , Out : Down	
REMOTE CONTROL		
□ Tool	VR-FA3FC0	
□ Multi-brand TV Control	X	
□ Code type	DAEWOO	- Mitsubishi format
□ IR (Infra-Red) Response	O	
□ Back-lit remote	X	
□ Joy Stick	X	
□ Jog / Shuttle on Remote	X	
Accessories		
□ RMC	O	
□ Batteris	O	
□ Bundle Disc	O	
□ Power Cord	X	
□ RF cable	O	
□ Composite A/V Cable	O	
□ Component Video Cable	X	
□ S-video cable (4 pin mini DIN) - 6'	X	
□ Scart Cable	X	
□ Coaxial, Optical Cable	X	
□ IB/Safety Tips	O	
□ IB, Number of Books / Language	TBD	
□ IB, Color / Size	B,W / B5	
□ Safety Sheet / Product Registration Card	TBD	
□ POP Material	O	
□ Advertisement Material	O	
□ Sensormatic Tag	TBD	

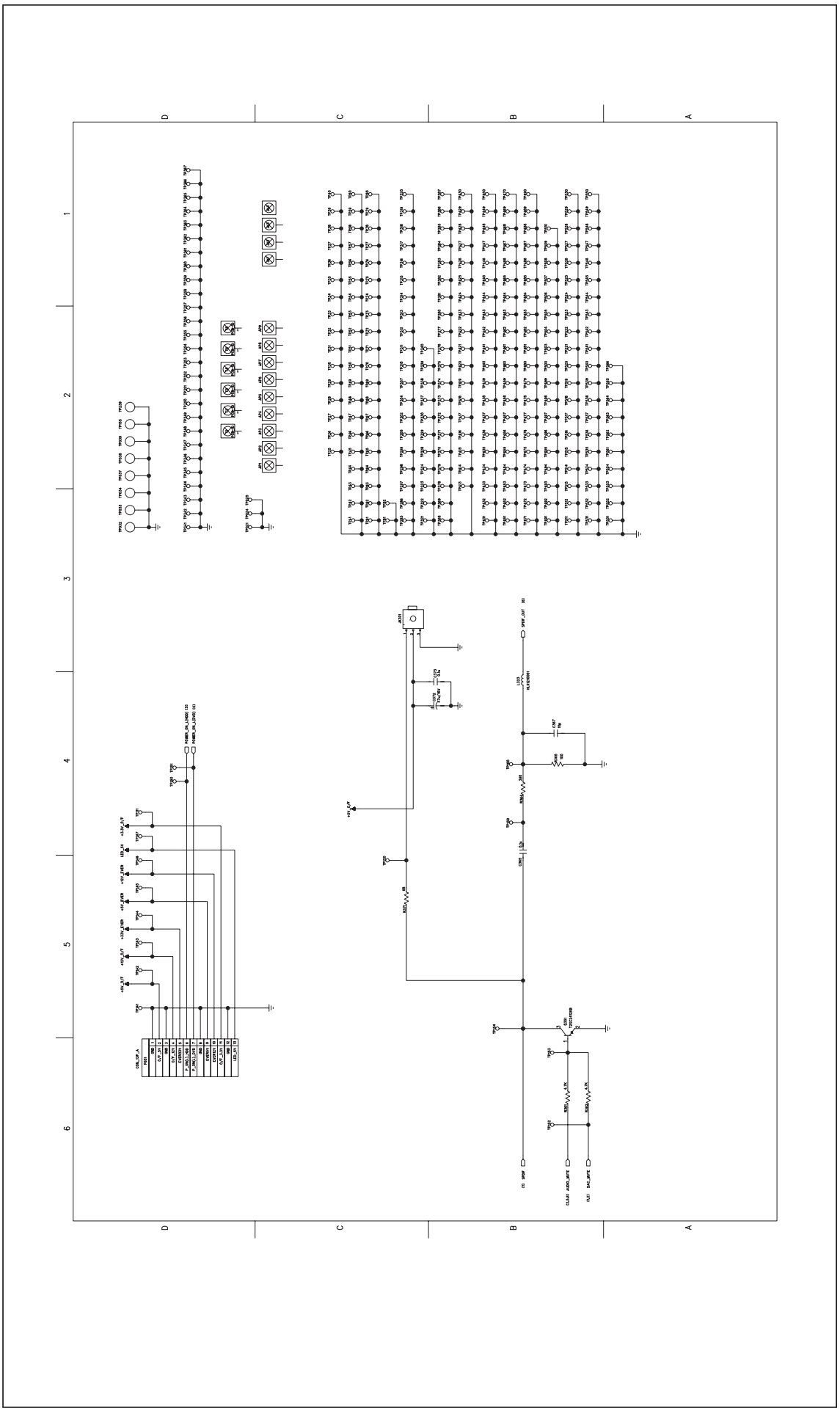
VIDEO BLOCK DIAGRAM

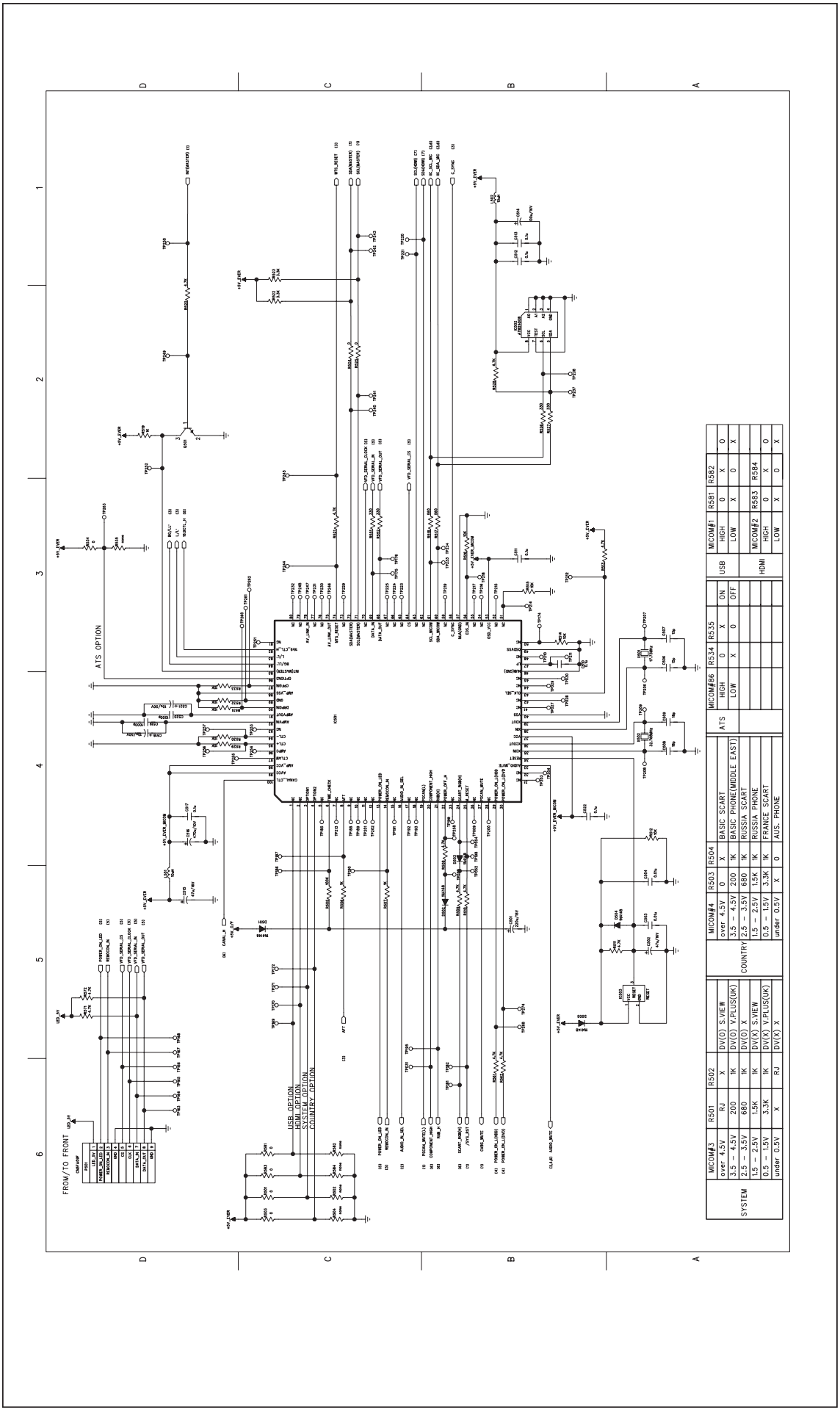





Audio Input Mux Switching
A Audio
C Front SVHS/1 INPUT Audio
1 Scart Audio







SYSTEM	MICOM#3	R501	R502
	over 4.5V	RJ	X
	3.5 ~ 4.5V	200	1K
	2.5 ~ 3.5V	680	1K
	1.5 ~ 2.5V	1.5K	1K
	0.5 ~ 1.5V	3.3K	1K
	under 0.5V	X	RJ

DV(O) S.VIEW	
DV(O) V.PLUS(UK)	
DV(O) X	
DV(X) S.VIEW	
DV(X) V.PLUS(UK)	
DV(X) X	

COUNTRY	MICOM#4	R503	R504
	over 4.5V	0	X
	3.5 ~ 4.5V	200	1K
	2.5 ~ 3.5V	680	1K
	1.5 ~ 2.5V	1.5K	1K
	0.5 ~ 1.5V	3.3K	1K
	under 0.5V	X	0

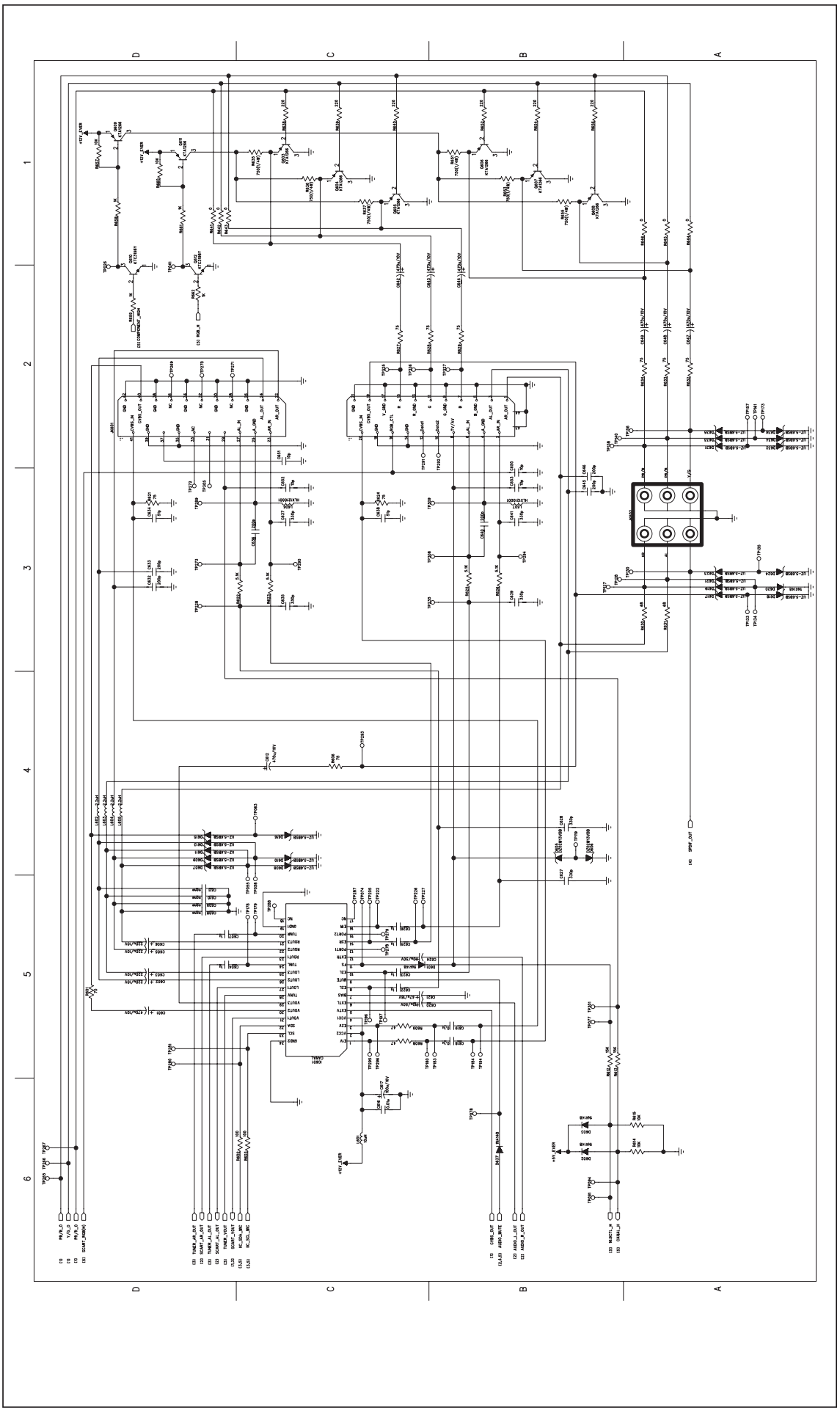
BASIC SCART
BASIC PHONE(MIDDLE EAST)
RUSSIA SCART
RUSSIA PHONE
FRANCE SCART
AUS. PHONE

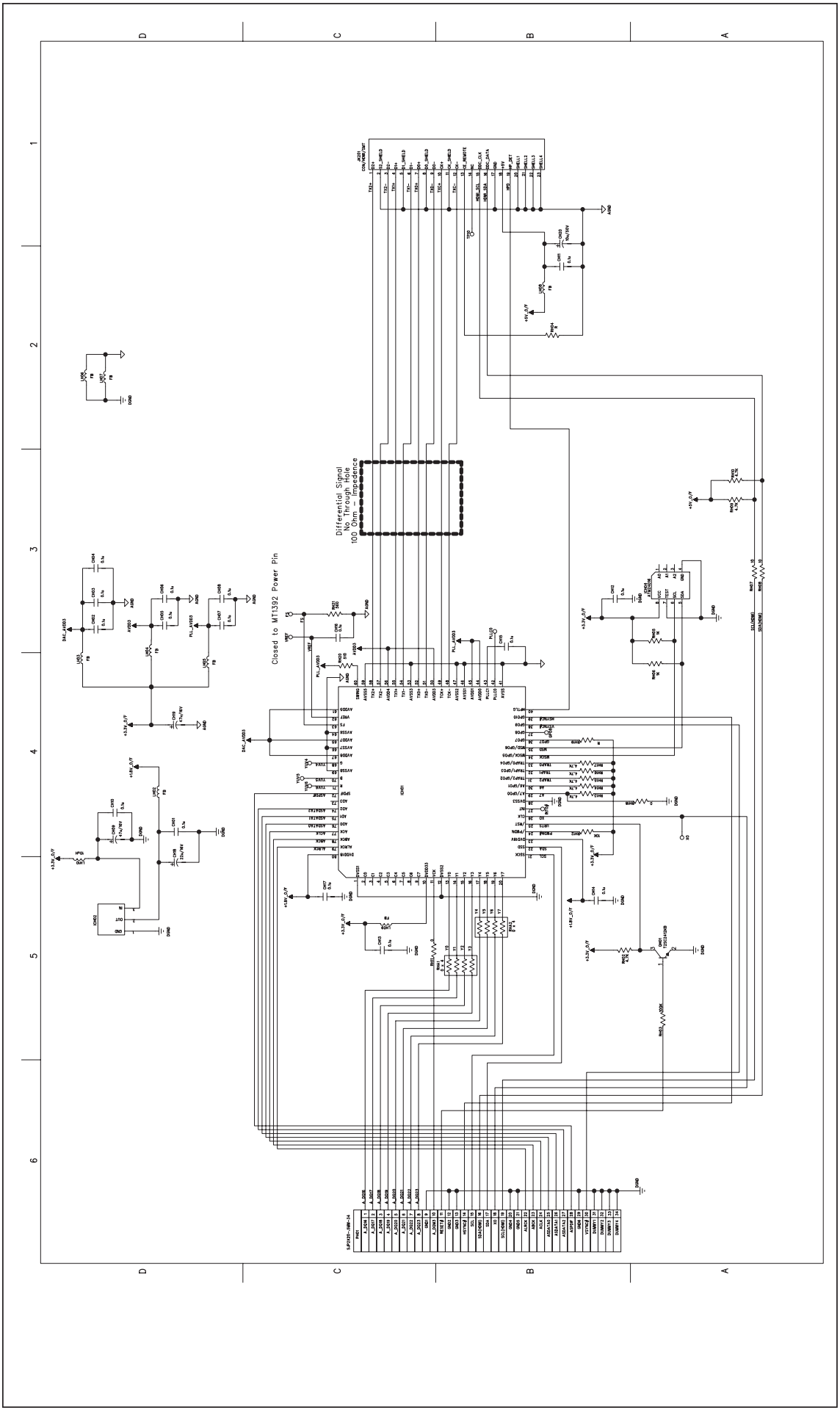
ATS	MICOM#36	R534	R535
	HIGH	0	X
	LOW	X	0

ON	
OFF	

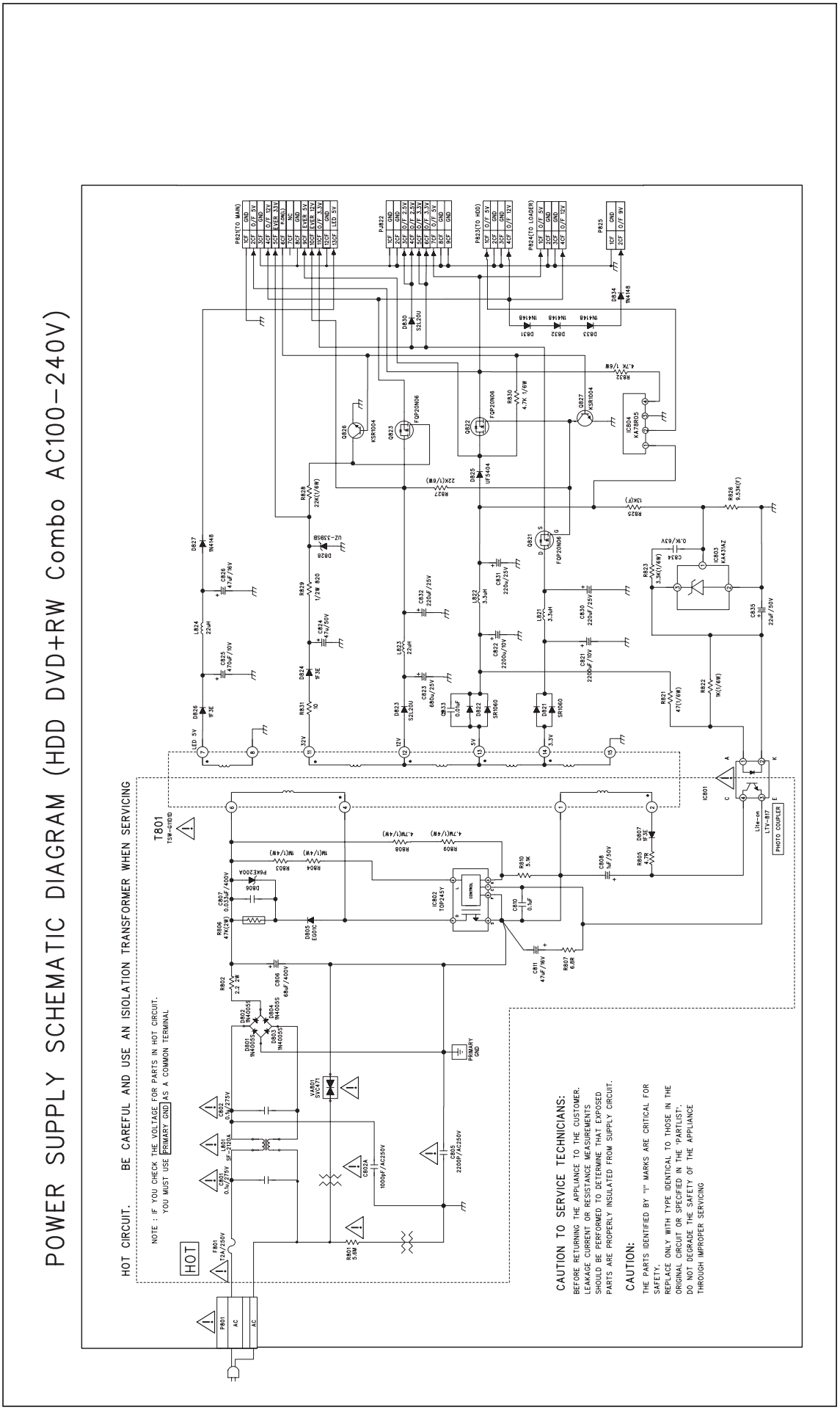
USB	MICOM#1	R581	R582
	HIGH	0	X
	LOW	X	0

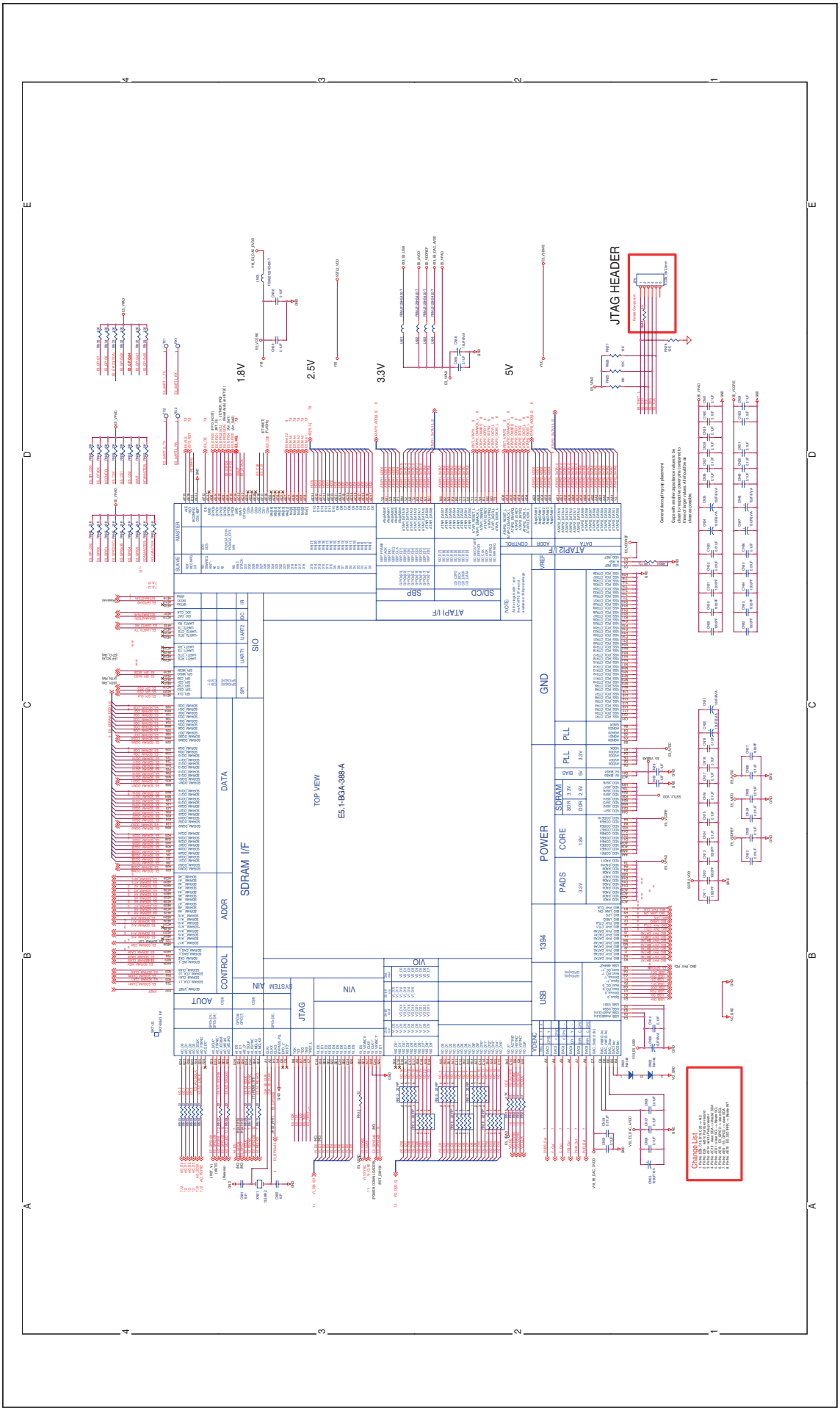
HDMI	MICOM#2	R583	R584
	HIGH	0	X
	LOW	X	0

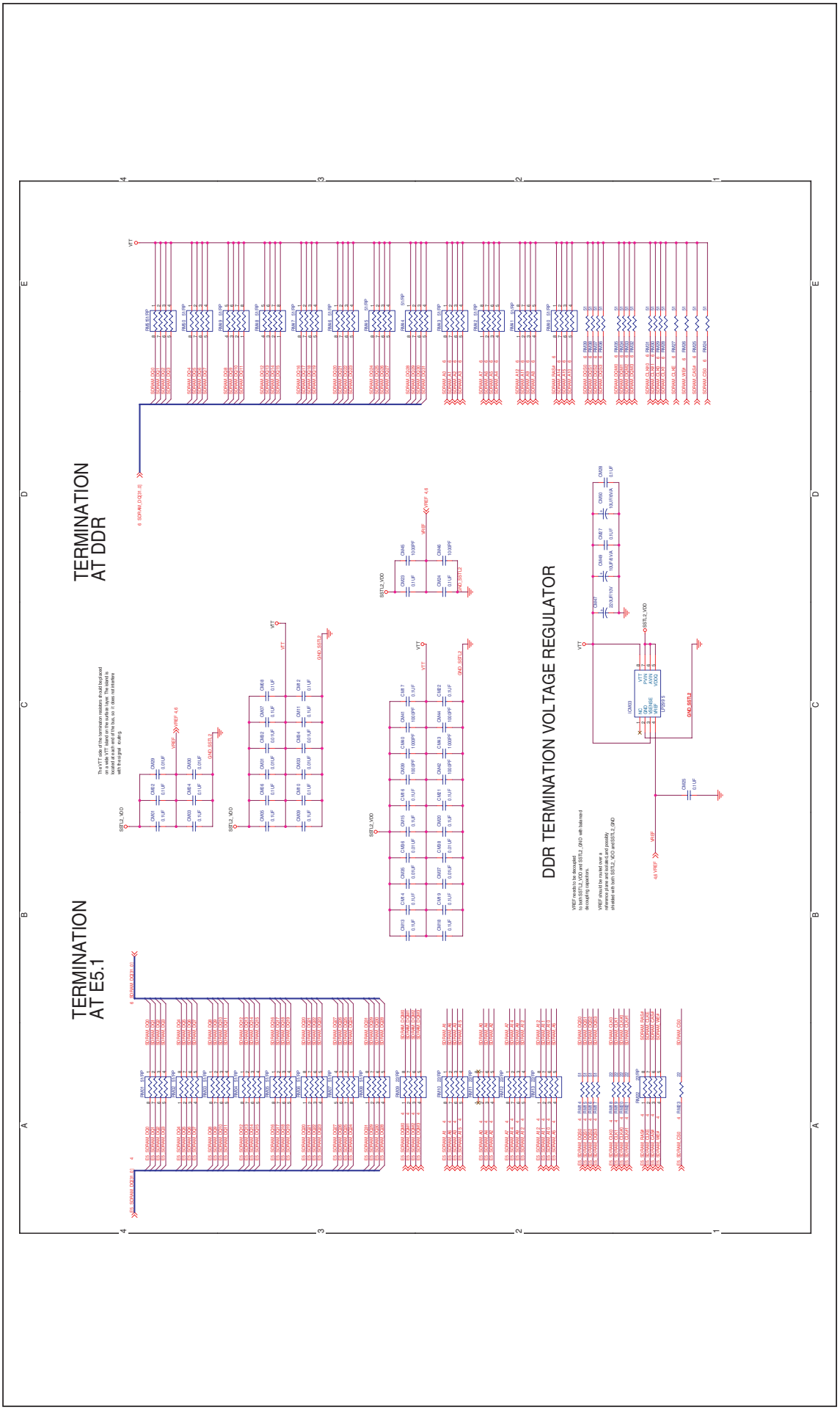


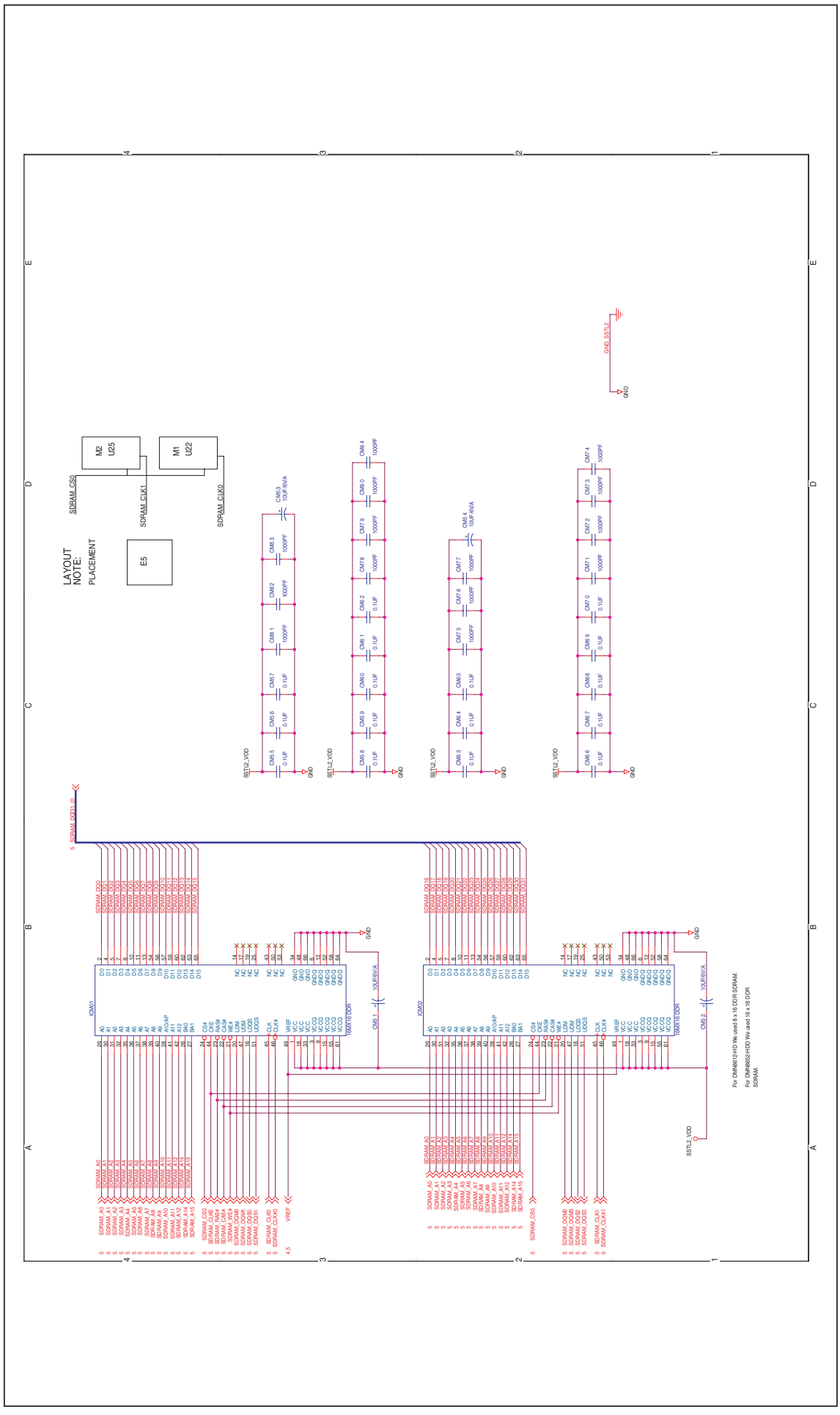


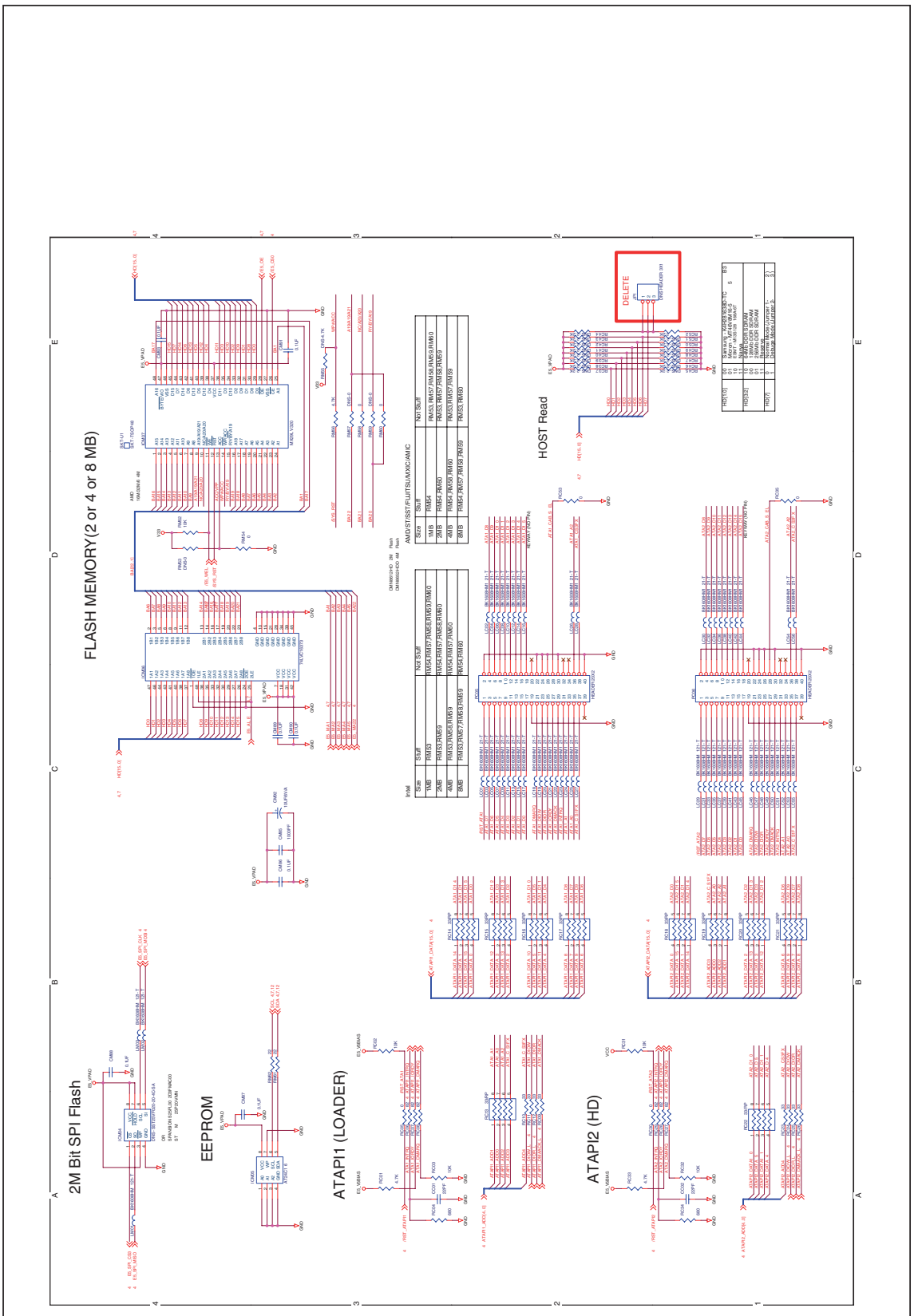
POWER SUPPLY SCHEMATIC DIAGRAM (HDD DVD+RW Combo AC100-240V)

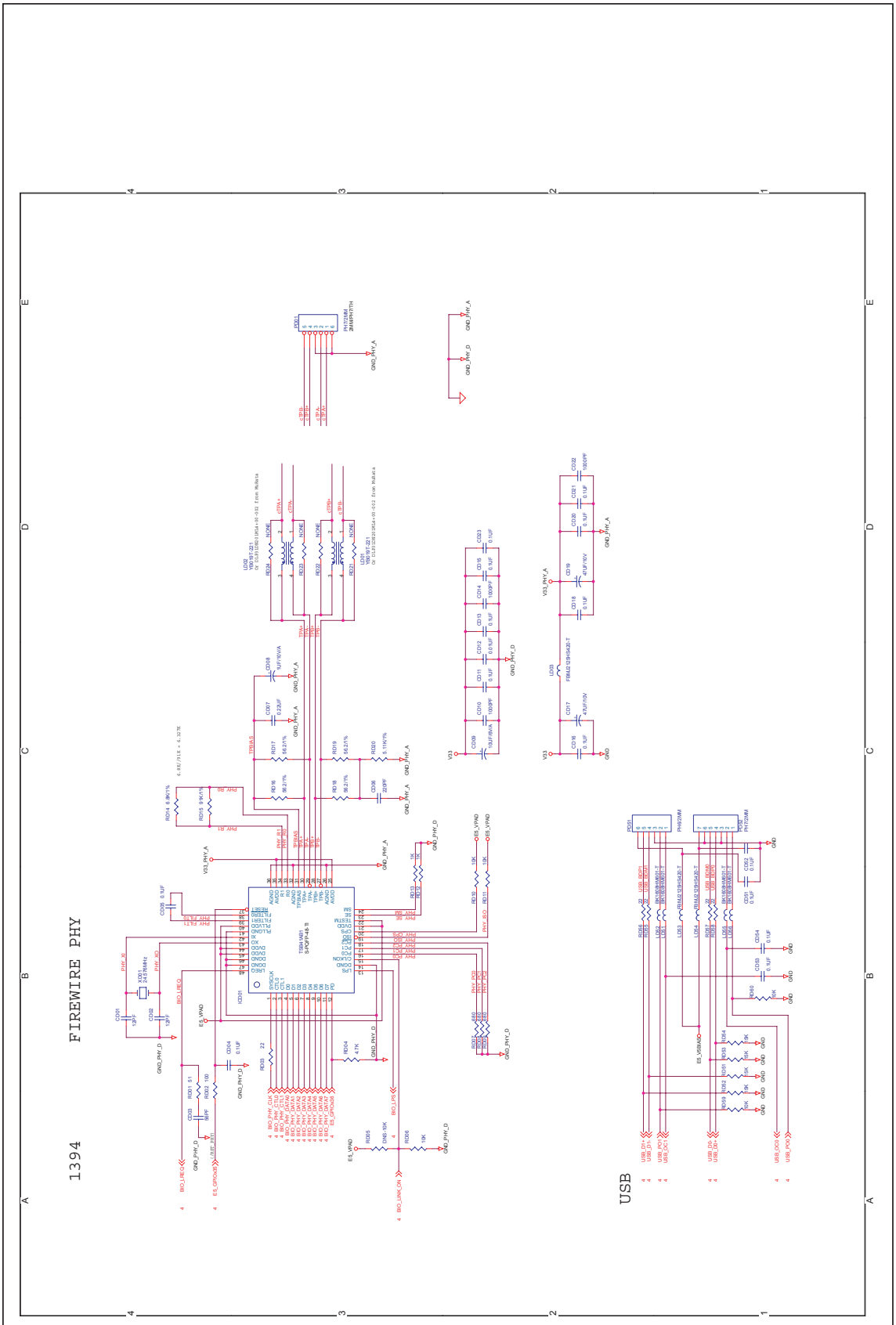

HOT CIRCUIT. BE CAREFUL AND USE AN ISIOLATION TRANSFORMER WHEN SERVICING
NOTE : IF YOU CHECK THE VOLTAGE FOR PARTS IN HOT CIRCUIT.
YOU MUST USE PRIMARY GND AS A COMMON TERMINAL
HOT
T801
15W-490B
CAUTION TO SERVICE TECHNICIANS:
BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.
LEAKAGE CURRENT OR RESISTANCE MEASUREMENTS
SHOULD BE PERFORMED TO DETERMINE THAT EXPOSED
PARTS ARE PROPERLY INSULATED FROM SUPPLY CIRCUIT.
CAUTION:
THE PARTS IDENTIFIED BY "!" MARKS ARE CRITICAL FOR
SAFETY.
REPLACE ONLY WITH TYPE IDENTICAL TO THOSE IN THE
ORIGINAL CIRCUIT OR SPECIFIED IN THE 'PARTLIST'.
DO NOT DEGRADE THE SAFETY OF THE APPLIANCE
THROUGH IMPROPER SERVICING
PHOTO COUPLER
LTV-817

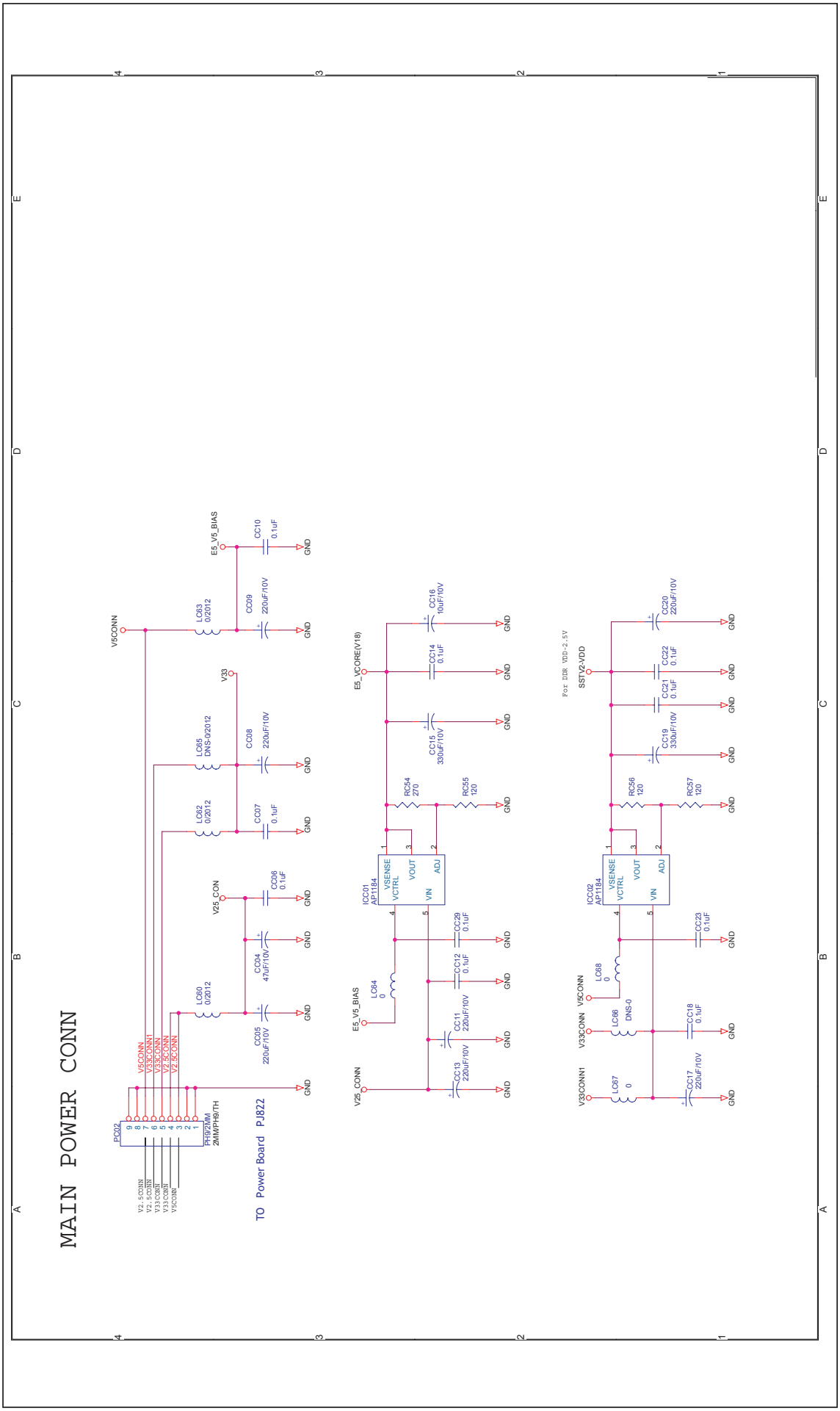

JTAG HEADER
1.8V
2.5V
3.3V
5V
TOP VIEW
E5.1-BGA-388-A
SDRAM I/F
DATA
ADDR
CONTROL
POWER
CORE
PADS
SDRAM
PLL
GND
1394
USB
ATAPI I/F
SIO
SBP
SD/CD
JTAG
AOUT
VIN
VIO
SYSTEM AIN
Change List

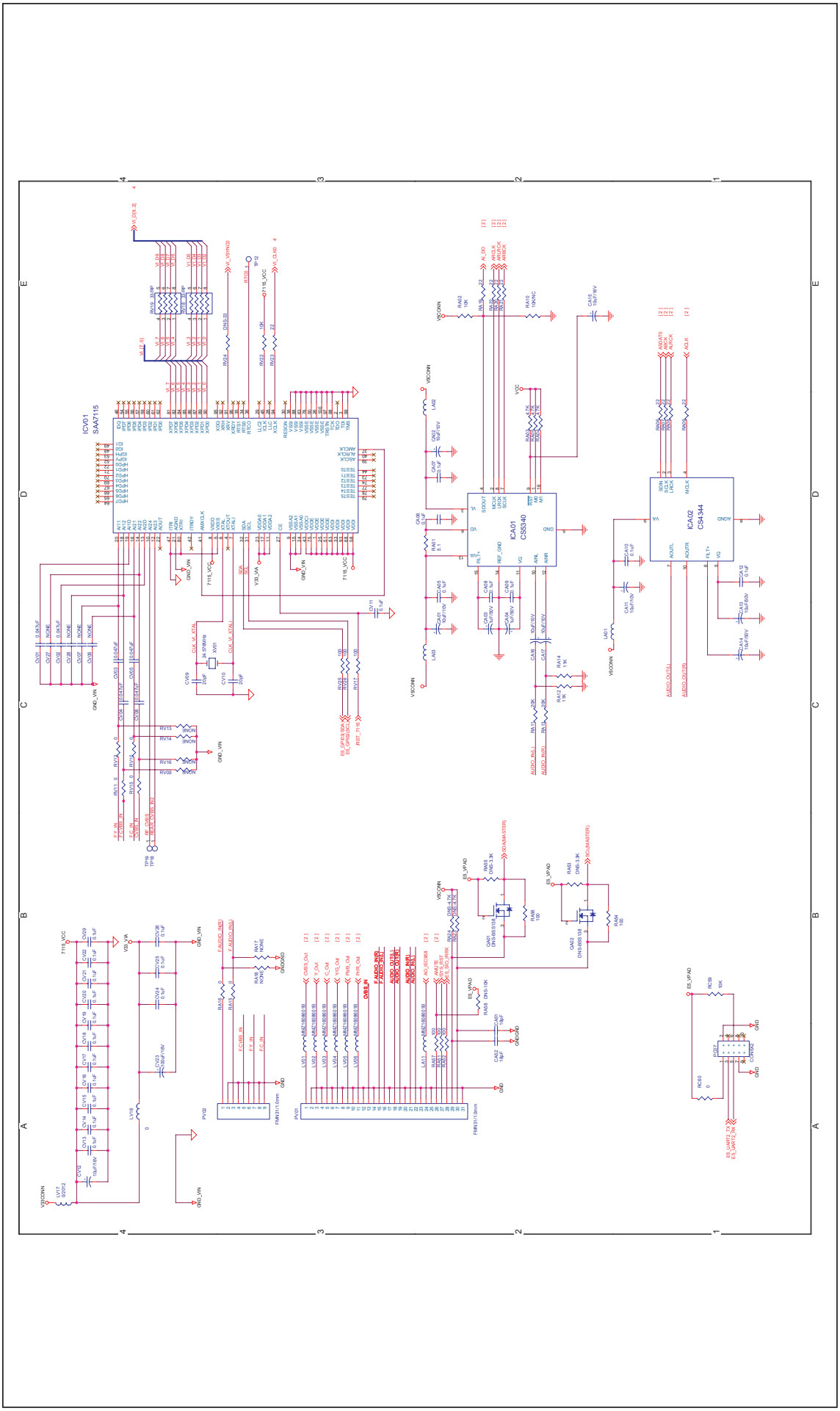

TERMINATION
AT E5.1
TERMINATION
AT DDR
DDR TERMINATION VOLTAGE REGULATOR

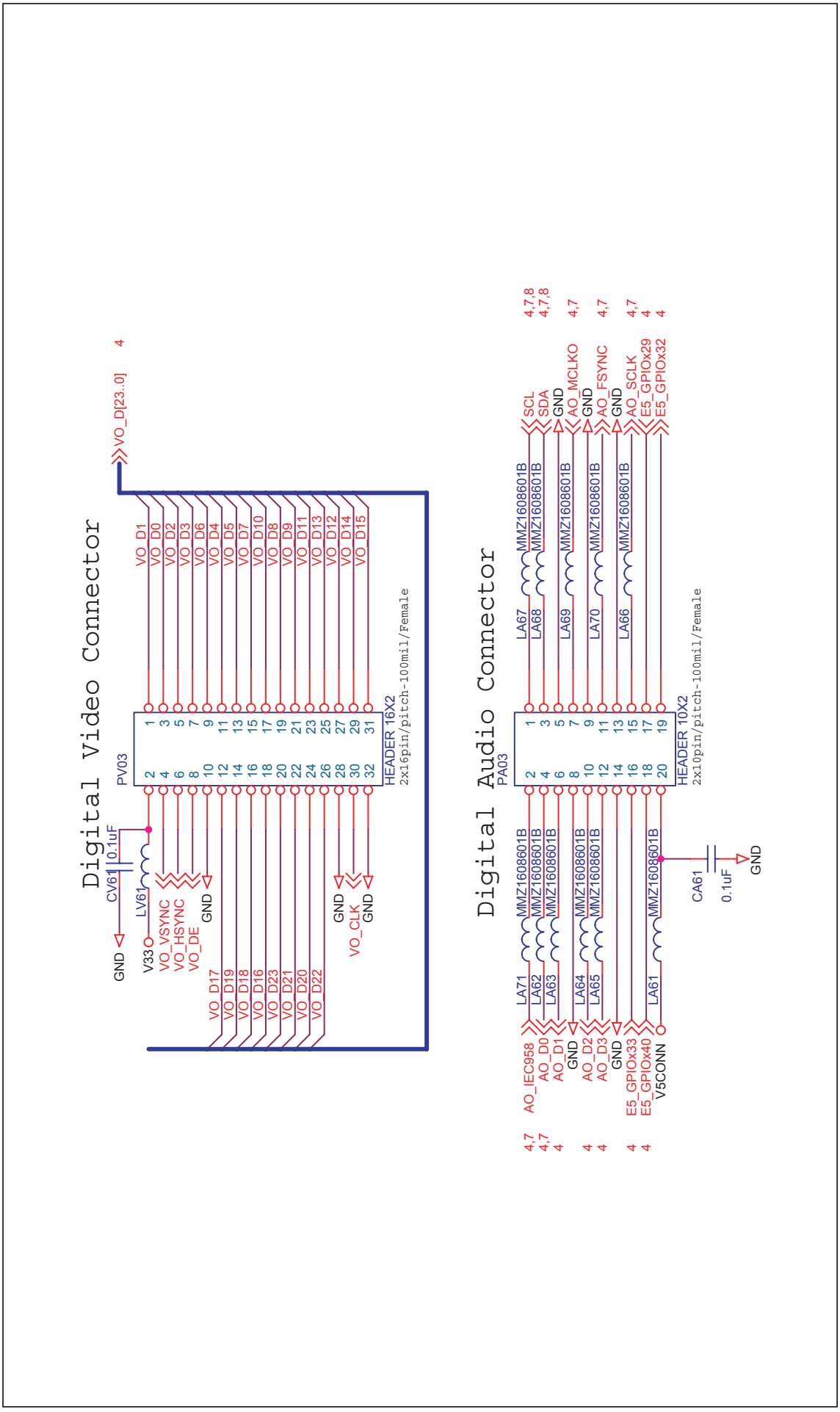

LAYOUT NOTE:
PLACEMENT
M2 U25
M1 U22
E5
SDRAM_CS0
SDRAM_CLK1
SDRAM_CLK0
GND_SSTL2
SSTL2_VDD
GND
10UF/6V/A
1000PF
0.1UF
IC#01
IC#02
TSOP(II)-66
SSTL2_VDD
For DM68612-H/D We used 8 x 16 DDR SDRAM.
For DM68652-H/D We used 16 x 16 DDR SDRAM.


FLASH MEMORY(2 or 4 or 8 MB)
2M Bit SPI Flash
EEPROM
ATAPI1 (LOADER)
ATAPI2 (HD)
HOST Read
DELETE

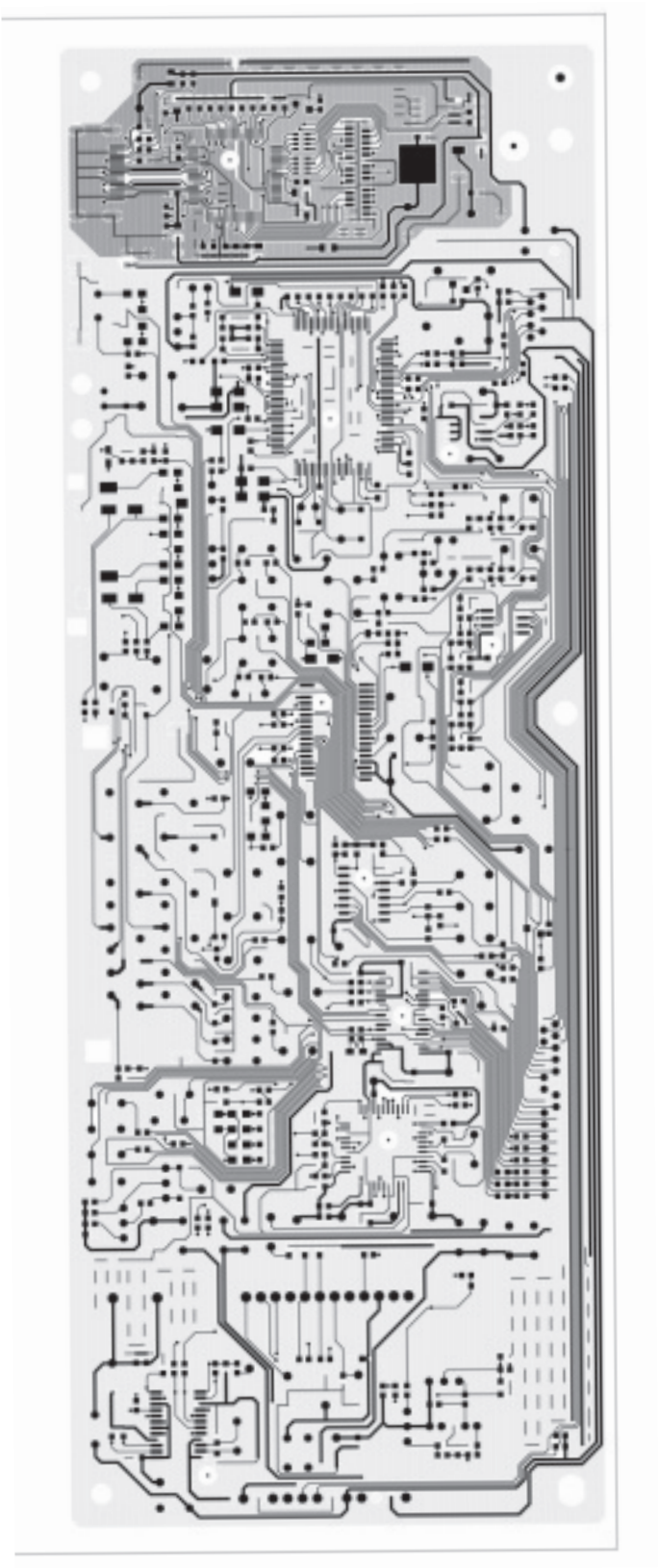

1394 FIREWIRE PHY
USB


MAIN POWER CONN
TO Power Board PJ822
PC02
PH92AM
2MMPH9/TH
V5CONN
V33CONN1
V33CONN
V2.5CONN
V25_CON
V33
E5_V5_BIAS
E5_VCORE(V18)
V25_CONN
SSTV2-VDD
For DDR VDD-2.5V
LC60 0/2012
LC62 0/2012
LC63 0/2012
LC64 0
LC65 DNS-0/2012
LC66 DNS-0
LC67 0
LC68 0
CC04 47uF/10V
CC05 220uF/10V
CC06 0.1uF
CC07 0.1uF
CC08 220uF/10V
CC09 220uF/10V
CC10 0.1uF
CC11 220uF/10V
CC12 0.1uF
CC13 220uF/10V
CC14 0.1uF
CC15 330uF/10V
CC16 10uF/10V
CC17 220uF/10V
CC18 0.1uF
CC19 330uF/10V
CC20 220uF/10V
CC21 0.1uF
CC22 0.1uF
CC23 0.1uF
CC29 0.1uF
RC54 270
RC55 120
RC56 120
RC57 120
ICC01 AP1184
ICC02 AP1184
VSENSE
VCTRL
VOUT
VIN
ADJ
GND

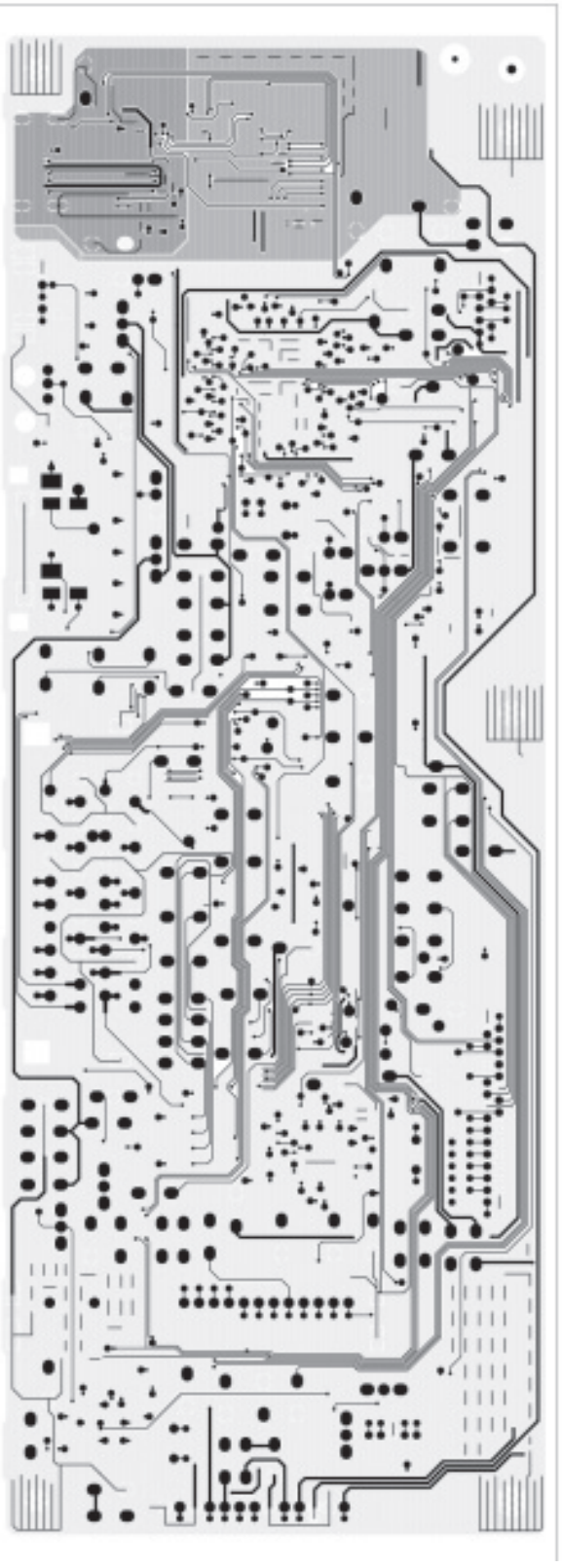



Digital Video Connector
PV03
HEADER 16X2
2x16pin/pitch-100mil/Female
VO_D[23..0]
4
VO_D1
VO_D0
VO_D2
VO_D3
VO_D6
VO_D4
VO_D5
VO_D7
VO_D10
VO_D8
VO_D9
VO_D11
VO_D13
VO_D12
VO_D14
VO_D15
VO_D17
VO_D19
VO_D18
VO_D16
VO_D23
VO_D21
VO_D20
VO_D22
GND
VO_CLK
GND
V33
VO_VSYNC
VO_HSYNC
VO_DE
GND
LV61
CV61
0.1uF
GND
Digital Audio Connector
PA03
HEADER 10X2
2x10pin/pitch-100mil/Female
LA71
LA62
LA63
LA64
LA65
LA61
LA67
LA68
LA69
LA70
LA66
MMZ1608601B
AO_IEC958
AO_D0
AO_D1
GND
AO_D2
AO_D3
GND
E5_GPIOx33
E5_GPIOx40
V5CONN
SCL
SDA
GND
AO_MCLKO
GND
AO_FSYNC
GND
AO_SCLK
E5_GPIOx29
E5_GPIOx32
4,7,8
4,7,8
4,7
4,7
4,7
4
4
4,7
4,7
4
4
4
4
CA61
0.1uF
GND

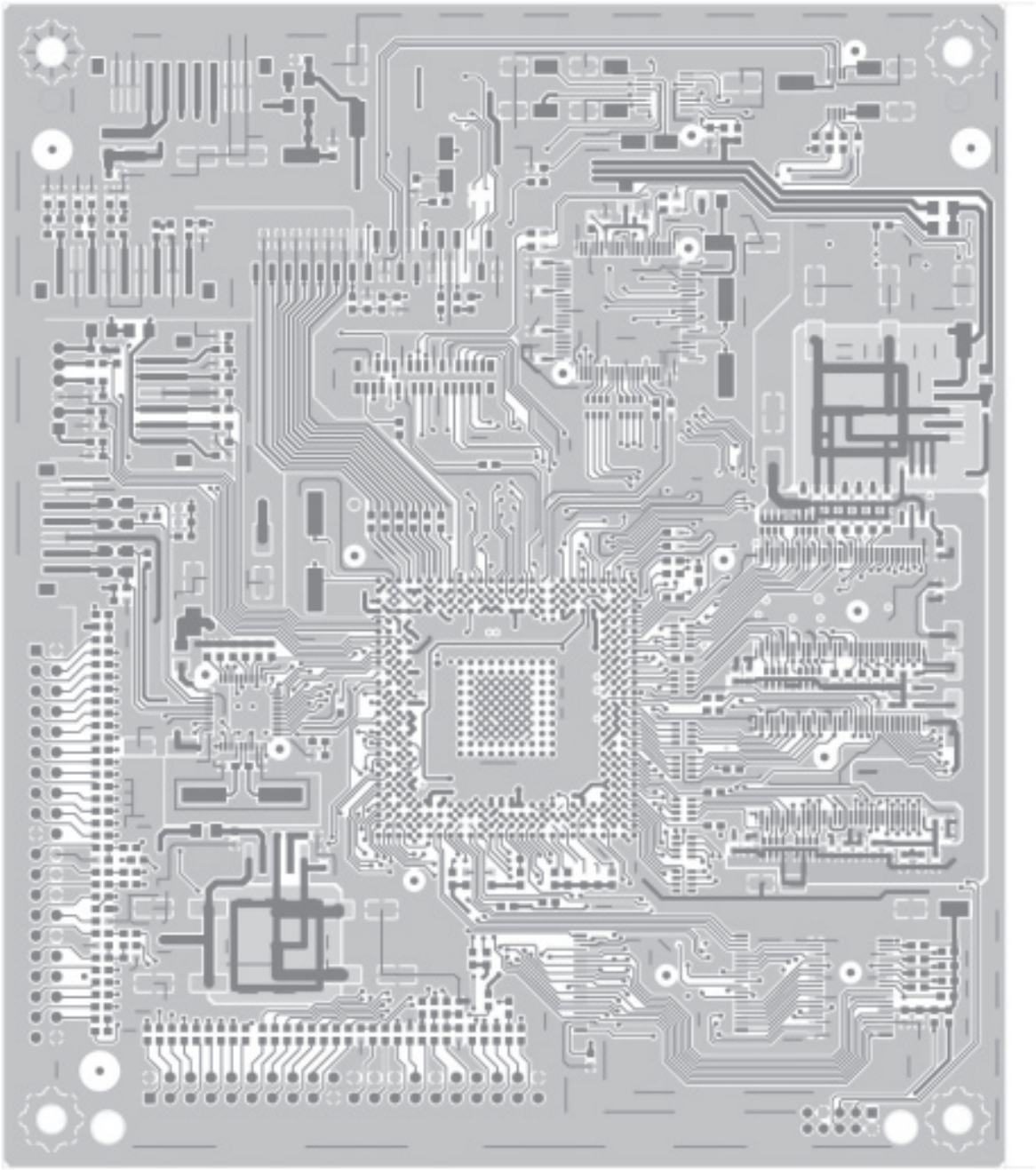
A. PCB MAIN TOP



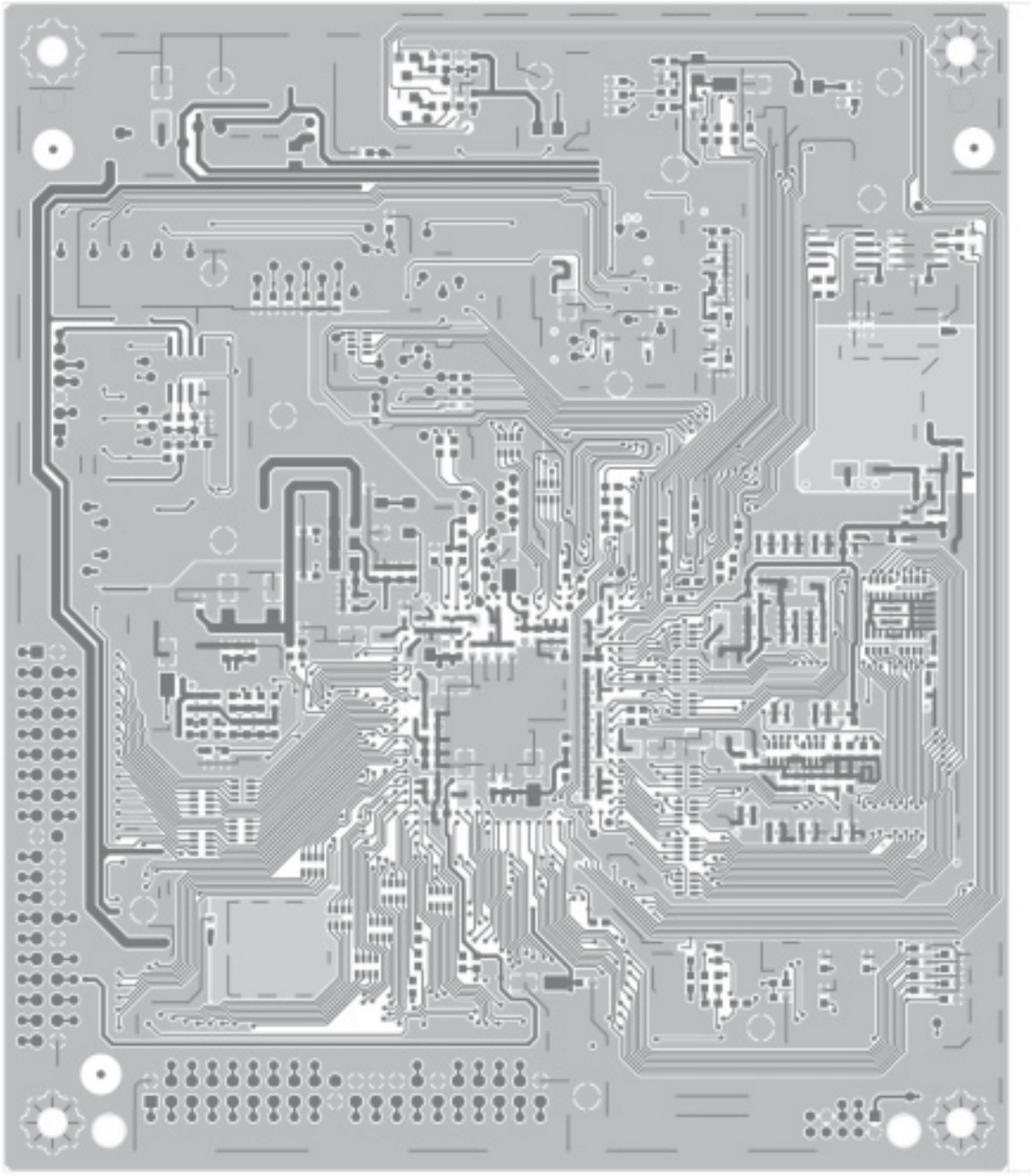
B. PCB MAIN BOTTOM



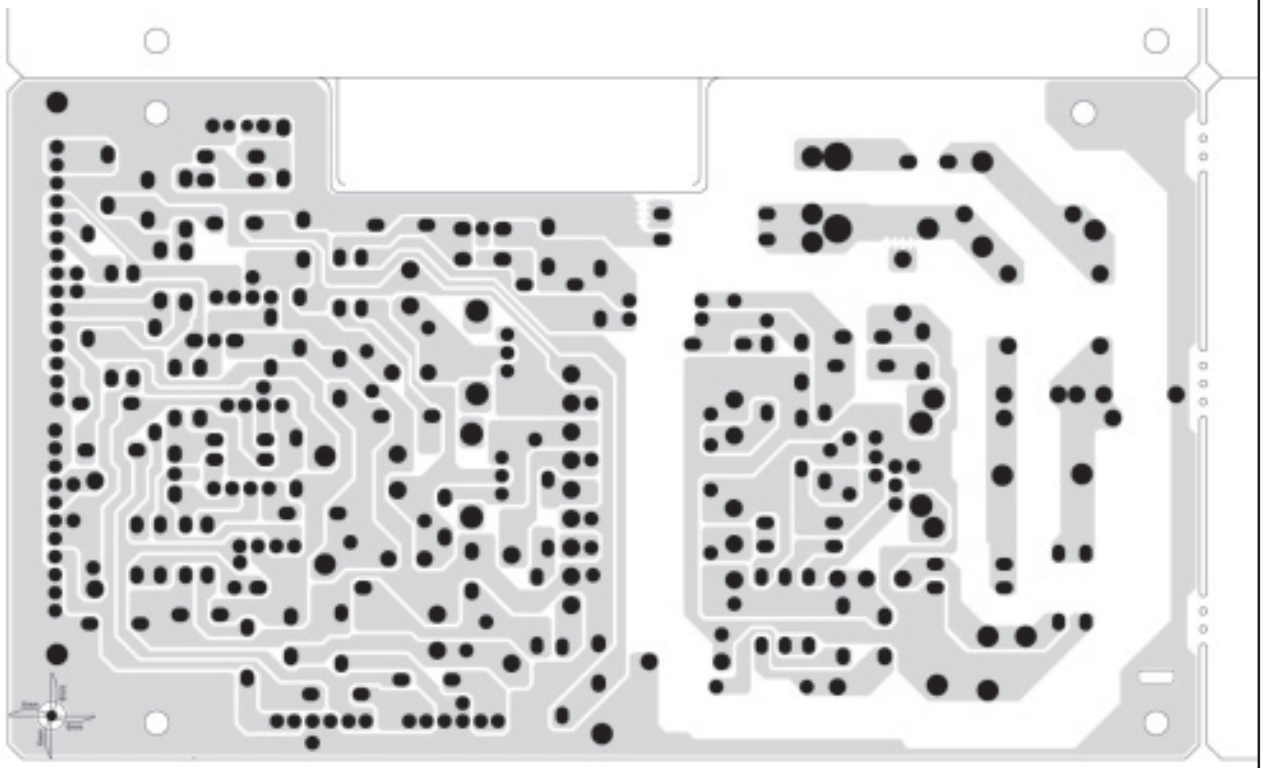
C. MPEG PCB TOP



D. MPEG PCB BOTTOM



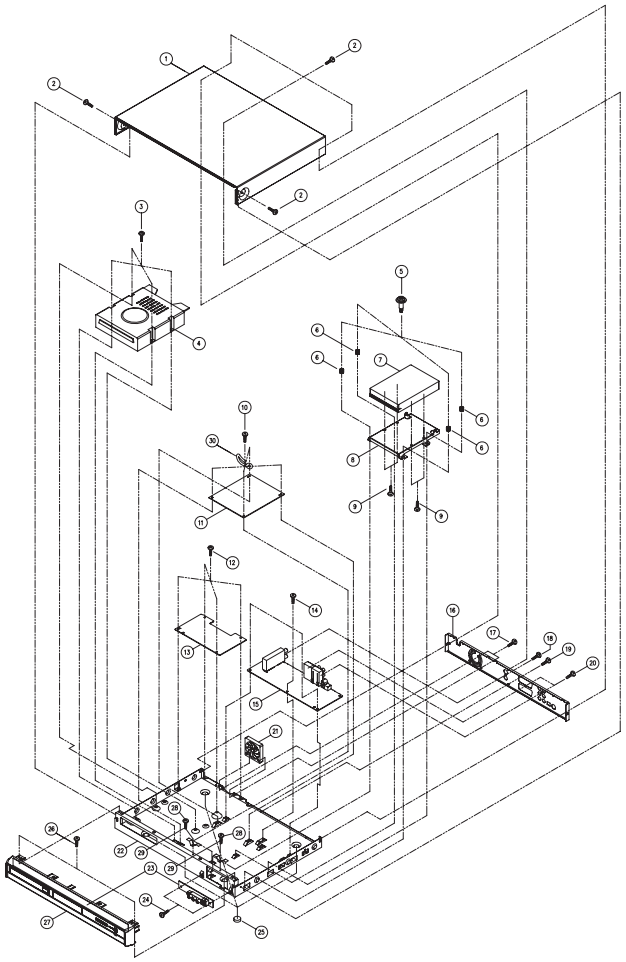
E. POWER PCB BOTTOM



LOGIC PCB PANEL 1

LOGIC PCB PANEL2

INSTRUMENT DISASSEMBLY



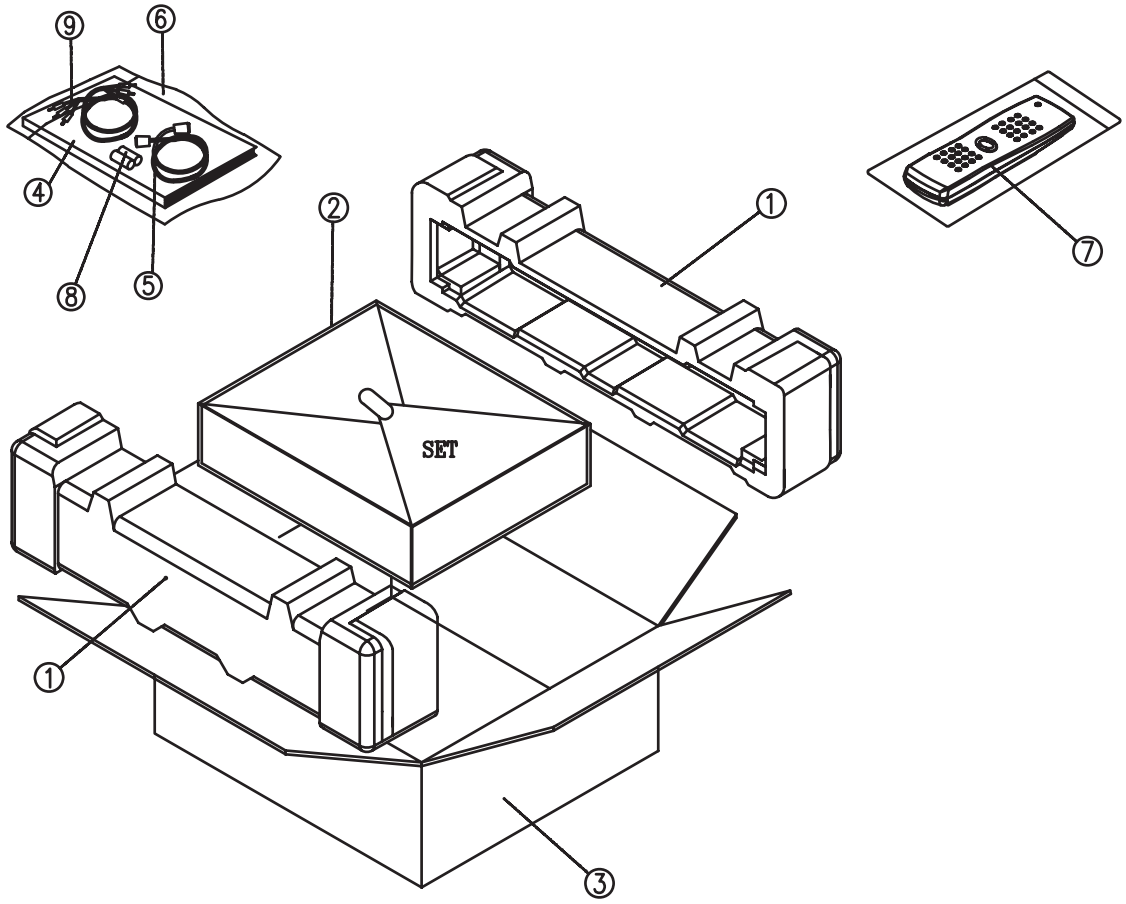
NO.	PART NAME	PART NO.	Q'TY	MATERIAL	REMARK
1	COVER TOP	DW-97P0488310	1	PCM T0.5	
2	SCREW TAPPTITE	DW-7173300852	5	TT2 BIN 3X8 MFZN BK 3CR	COVER TOP FIX
3	SCREW TAPPTITE	DW-7171260651	4	TT2 PAN 2.6X6 MFZN 3CR	LOADER FIX
4	TOTAL DVD	DW-97QD021610	1	DDW-806S-D	
5	SCREW DAMPER TAPPTITE	DW-97P3121250	4	TT2 3X14 WAS SPECIAL 3CR	HDD+Cov Bot FIX
6	DAMPER HDD	DW-97P2627700	4	BUTHYL, ϕ10	
7	HDD	DW-97P0D007H0	1	WD800BB-**JHCO 80G 2M	HVR-DX700only
		DW-97P0D005H0	1	WD1600BB-55RDA0 160G 2M	HVR-DX710only
8	BRACKET HDD	DW-97P2448700	1	SECC T1.0	
9	SCREW MACHINE	DW-7043350651	4	BIN M3.5*6 3CR	HDD FIX
10	SCREW TAPPTITE	DW-7174300851	4	TT2 RND 3X8 MFZN 3CR	PCB MPEG FIX
11	PCB MPEG MANUAL AS	DW-PVMGMSE746	1	DG-M23E1D-HR/0	
12	SCREW TAPPTITE	DW-7174300851	4	TT2 RND 3X8 MFZN 3CR	PCB POWER FIX
13	PCB POWER MANUAL AS	DW-PVPWMSE613	1	DG-M21D1D-HB	
14	SCREW TAPPTITE	DW-7174300851	3	TT2 RND 3X8 MFZN 3CR	PCB MAIN FIX
15	PCB MAIN MANUAL AS	DW-PVMPMSE746	1	DG-M23E1D-HR/0	
16	COVER BACK	DW-97P0488403	1	SECC T0.6	
17	SCREW TAPPTITE	DW-7173500852	2	TT2 BIN 5X8 MFZN BK 3CR	FAN FIX
18	SCREW TAPPTITE	DW-7173300652	1	TT2 BIN 3X6 BK 3CR	TMI FIX
19	SCREW TAPPTITE	DW-7173300852	1	TT2 BIN 3X8 MFZN BK 3CR	COVER BACK FIX
20	SCREW TAPPTITE	DW-7173300852	2	TT2 BIN 3X8 MFZN BK 3CR	JACK A/V RE FIX
21	MOTOR FAN	DW-97P8101000	1	RDM5015S(50X50X15)12V	5000 RPM ALL SLEEVE
22	COVER BOTTOM	DW-97P0488200	1	SECC T0.8	
23	PCB LOGIC MANUAL AS	DW-PVLAMSN789	1	DG-M23D1N-GS	
24	SCREW TAPPTITE	DW-7174300851	2	TT2 RND 3X8 MFZN 3CR	JACK A/V FR FIX
25	CUSHION LEG	DW-97P4220000	4	EVA T2.0	CHASSIS BOTTOM
26	SCREW TAPPTITE	DW-7174300851	2	TT2 RND 3X8 MFZN 3CR	PANEL FIX
27	PANEL FRONT AS*	DW-97PP349611	1	DG-M23,HIPS(VO),DV	
28	SCREW TAPPTITE	DW-7174300851	2	TT2 RND 3X8 MFZN 3CR	PLATE EARTH AB FIX
29	PLATE EARTH AB	DW-97P0919100	2	SUS 304 CSP T=0.2	
30	CLAMP WIRE	DW-97P4603400	1	EGI T0.6+PVC TUBE L=70MM	

* When you order spare parts with the *-mark to our service team, please inform them on PART NO. with your model No. such as DW-97PP349611 (HVR-DX700).

Note 1) Only the parts in above list are used for repairing.

2) Other parts except the above parts can't be supplied.

PACKING VIEW



NO.	PART NAME	PART NO.	Q'TY	MATERIAL	REMARK
1	PAD FRONT/BACK	DW-97P4936200	1	EPS	
2	POLY BAG FOR SET	DW-97P4820000	1	1030*650*T0.5 PE FOAM	
3	BOX CARTON*	DW-97P5060520	1	COLOR(505X452X136)	
4	MANUAL OWNERS	DW-97P95600D0	1	EC MODEL	
5	CABLE RF	DW-97P881RP10	1	PAL 1.0M	
6	COVER ACCESSORY	DW-97P0424100	1	LD-PE T0.05	
7	REMOCON HANDSET AS	DW-97P1RA3FC0	1	VR-FA3FC0 GYGY3401A AAA	
8	BATTERY	DW-486A716202	2	AAA 1.5V(SUPERGARD)	
9	CABLE RCA	DW-97P880P815	1	3P-3P WEL-WHT-RED 1.5M	

* When you order spare parts with the *-mark to our service team, please inform them on PART NO. with your model No. such as DW-97P5060520 (HVR-DX700).

SANYO

SANYO Electric Co., Ltd.
Osaka, Japan

Sept/'06